

MAGNOLIA WASTEWATER SYSTEM

P.O. BOX 666

MAGNOLIA, ARKANSAS 71754-066

(870) 234-2955

mwws@sbcglobal.net

October 26, 2012

Mr. Allen Gilliam
ADEQ State Pretreatment Coordinator
5301 NorthShore Drive
North Little Rock, Arkansas 72118-5317

Re: City of Magnolia Big-Creek WWTP, NPDES #AR0043613, AFIN #14-00059.

Dear Mr. Gilliam,

Response to August 14, 2012 E-mail.

1) Elements of a Pretreatment Program, Identification of Industrial Users.

You will find a Summarized User list included in this packet.

2) Administrative Procedures:

I have included a template of the permit that we have used in the past, if you have a better updated version, it would be greatly appreciated if I could have a electronic version of this.

3) General:

Our (monitoring/sampling/inspections) will be followed up on starting in 2013.

4) Ordinance 95-12: Sec 3.2:

The City will conduct slug load evaluations at least once per two years.

5) Ordinance 95-12 Sec. 10.0;

Reference E-mail from Allen Gilliam on October 18, 2012.

6) Wastewater Discharge Permits", Sec.6.1 Permit Applications;

Permit applications for Southern Aluminum & Everette Plating have been included in this packet.

7) Submit a reasonable time frame for Ordinance;

Ordinance was mailed to your office before 9/30/12, awaiting return of ordinance with corrections.

If you have any questions, please feel free in contact my office at 870.234.2955

Thank you,















Russell W. Thomas

City of Magnolia Big-Creek WWTP

Non Domestic User List

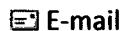
Non Domestic User List

American Fuel Cells & Coated Fabrics	 E-mail	 Map	American Fuel Cells & Coated Fabrics
601 Firestone Drive Magnolia, AR 71753			
Business 870-234-3381	Home		Mobile
<hr/>			
Arkansas Laminating LLC. P.O. Box 669 Magnolia,, AR. 71754	 E-mail	 Map	Gary Caskey Plant manager garycaskey@arklam.com
Business 870-234-4112	Home		Mobile
<hr/>			
B & B Oil Tools 101 Whitehead Drive Magnolia,, AR 71753	 E-mail	 Map	Bobbie Allen President
Business 870-234-7222	Home		Mobile
<hr/>			
Bailey's Body Shop 2416 N. Vine Magnolia,, AR 71753	 E-mail	 Map	Danny Bailey Owner dbailey@suddenlinkmail.com
Business 870-234-3303	Home		Mobile
<hr/>			
Banner News 134 S.Washington Magnolia,, AR. 71753	 E-mail	 Map	Banner News
Business 870-234-5130	Home		Mobile
<hr/>			
Betsy Production 707 E. Main Magnolia,, AR. 71753	 E-mail	 Map	Mike Davis
Business 870-234-5858	Home		Mobile
<hr/>			

Non Domestic User List

Champion Technology

1810 S. Jackson
Magnolia,, AR 71753



E-mail



Map

Champion Technology

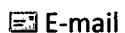
Business

Home

Mobile

Elliot MFG. Co.

1000 S. Washington
Magnolia,, AR 71753



E-mail



Map

Jay Elliot

Business

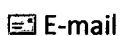
Home

Mobile

870-234-3365

Gray Steel Corp.

500 W. Columbia St.
Magnolia,, AR. 71753



E-mail



Map

Tom Hall

Business

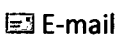
Home

Mobile

870-234-5363

Grays Cleaners

212 E. Union
Magnolia,, AR. 71753



E-mail



Map

Jerry Gray

Business

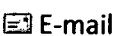
Home

Mobile

2342442

Home Cabinet

126 Taylor
Magnolia,, AR. 71753



E-mail



Map

Joe Robison

Business

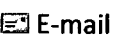
Home

Mobile

870-234-4230

Hydostatic Oil Field Testing

1605 Commerce St.
Magnolia,, AR. 71753



E-mail



Map

Billy Pharr

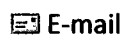
Business

Home

Mobile

870-234-7638

Non Domestic User List

Jack B. Kelley


E-mail



Map

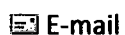
Jack B. Kelley

231 Arkansas St.
Magnolia,, AR. 71753

Business
870-234-

Home

Mobile

Jevac /Evertt Platting


E-mail



Map

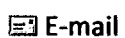
J. Craig Cheatham

2507 Columbia County Rd.47
Magnolia,, AR. 71753

Business
870-695-3487

Home

Mobile

KDCO


E-mail



Map

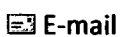
Kenneth Weaver

213 N. Vine
Magnolia,, AR. 71753

Business
870-234-5098

Home

Mobile

Kelso


E-mail



Map

Paul Bonds

706 S. Pine
Magnolia,, AR. 71753

Business
870-234-1280

Home

Mobile

**Magnolia Regional Medical
Cntr.**


E-mail



Map

Darrell Chatelain

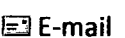
101 Hospital Drive
Magnolia,, AR 71753

Plant operation Director
dchatelain@magnoliarmc.org

Business
870-235-3446

Home

Mobile

Morden Machine Shop


E-mail



Map

Max Morden

115 N. Walnut
Magnolia,, AR. 71753

Business
870-234-2330

Home

Mobile

Non Domestic User List

Northern Nation Lease

3814 11th St. Box 1531
Rockford, Il. 61110



E-mail



Map

Northern Nation Lease

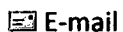
Business

Home

Mobile

Owen Drilling

413 Columbia 13
Magnolia,, AR. 71753



E-mail



Map

E.H. Owen

Business

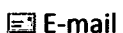
Home

Mobile

870-234-6300

Partee Flooring Mill

520 Peace St.
Magnolia,, AR. 71753



E-mail



Map

Sam Sharp

Business

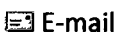
Home

Mobile

870-234-4082

Peace Flooring Co.

520 Peace St.
Magnolia,, AR. 71753



E-mail



Map

John S. Duke

Business

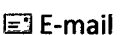
Home

Mobile

870-234-2310

Quality Carriers

151 Hwy 79 South
Magnolia,, AR. 71753



E-mail



Map

Gary Bailey
manager

Business

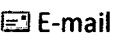
Home

Mobile

870-234-6387

SAPA

248 Greene Street
Magnolia,, AR 71753



E-mail



Map

Kevin Stuban


Business

Home

Mobile

870-234-4260

Non Domestic User List

Sherwin Williams Paint Store
 E-mail

 Map


601 E. Main
Magnolia,, AR. 71753

Trent Mayo
manager

Business
870-2345977

Home

Mobile

Sno-White Laundry
 E-mail

 Map


Sno-White Laundry

123 N. Pine
Magnolia,, AR. 71753

Business

Home

Mobile

Southern Aluminum
 E-mail

 Map

Leon Ryan


5 Hwy 82 West
Magnolia,, AR. 71753

ctuggle@southernaluminum.com

Business
870-234-8660

Home

Mobile

Southern Arkanas University
 E-mail

 Map

**Southern Arkanas
University**


100 East University

Magnolia, AR. 71753

Business

Home

Mobile

Transit Mix Concrete
 E-mail

 Map

Matthew Hallmark

4200 Old Troop Highway
Tyler,, TX. 75707

Magnolia Location
matthew.hallmark@trin.net

Business
972-544-5923

Home

Mobile

Permit Template

**CITY OF MAGNOLIA WASTEWATER SYSTEM
WASTEWATER DISCHARGE PERMIT**

PERMIT # MAG.AR-_____

In accordance with the provisions of the City of Magnolia, Arkansas City Ordinance #94-5 - 95-12 the following facility, XXXXXXXXXXXX MAGNOLIA , ARKANSAS 71753 is hereby authorized to discharge process wastewater through outfall # 001, identified in this permit in accordance with the conditions set forth in the permit.

Compliance with this permit does not relieve the Permittee of its obligation to comply fully with the conditions, limitations, requirements, standards, or requirements as required by Federal, State, and Local Laws. This permit may be amended based upon new requirements or regulations issued by regulatory authorities.

The Permittee is required to comply fully with the conditions, limitations, requirements, and terms as indicated by this permit, local ordinance, or other requirements required by the City of Magnolia may issue. Noncompliance with any term or condition of this permit shall constitute a violation of the City of Magnolia, Arkansas Sewer Use Ordinance. The City Of Magnolia may revoke, suspend, or terminate this permit for the refusal to comply with the conditions or requirements stated herein.

This permit shall become effective on _____, and expire on _____. At least ninety (90) days prior to the expiration of this permit, the Permittee must submit an application to the City Of Magnolia for renewal. The Permittee is not authorized to discharge at anytime without the permit being current, as required by the City Of Magnolia.

Issued this ___th day of _____ 201__

Russell W, Thomas, Superintendent
Magnolia Wastewater System

LEGAL AUTHORITY

The City of Magnolia shall operate pursuant to legal authority enforceable in Federal, State, or Local courts which authorizes or enables the City of Magnolia Wastewater Department to apply and to enforce the requirements of section 307 (b), (c), and 402 (b) (8) of the Act and any regulations implementing those sections. Such authority maybe contained in a statute, ordinance, or series of contracts or joint powers agreement which the City of Magnolia is authorized to enact, enter into or implement, and which are authorized by State Law. At a minimum, this legal authority shall enable the City of Magnolia to implement the program in accordance with 40 CFR 403.8 (f) (1) .

POLLUTANT LIMITATIONS AND MONITORING REQUIREMENTS

During the period of the effective date of this permit through the date of expiration, the Permittee is authorized to discharge process wastewater into the City of Magnolia Wastewater System for the out-fall location ~~~~~.

During the permit period, the Permittee shall not exceed the following effluent limitations listed below:

PARAMETER SAMPLE	DAILY	UNITS	MONITORING
	MAXIMUM LIMITS		FREQUENCY TYPE

Notice:

Semi-volatiles shall be taken by 24 hour composite samples, however, volatiles shall be taken by grab samples and preserved according to 40 CFR 136

All samples collected shall be preserved and analyzed in accordance with 40 CFR 136 and

amendments there unless otherwise specified in the permit.

The Permittee is required to notify the City of Magnolia of any additional flow amounts exceeding 10 % of the flow requirement listed in this permit

The City of Magnolia may also require that the Permittee meet bio-monitoring requirements and to pass toxicity test as performed by an acceptable testing protocol (Microtox). The City of Magnolia may set a specific dilution level to comply with the conditions of the permit in disposing of Wastewater to the City of Magnolia.

MONITORING LOCATION

During the period beginning on the effective date of this permit and lasting until the date of expiration, the Permittee is authorized to discharge from location number XXXXXX into the City of Magnolia Wastewater System. The Permittee is only permitted to discharge process wastewater from this location.

INCREASE IN MONITORING FREQUENCIES

If the Permittee monitors any pollutant more frequently than required by the permit, using test procedures prescribed in 40 CFR 136 or amendments thereto, or otherwise approved by the EPA or as specified in this permit, the results shall be reported in the monthly report submitted to Permittee. Such monitoring frequency shall be indicated in the monthly report.

NOTIFICATION AND RESAMPLING

If the results of the Permittee wastewater analysis indicates a violation (s) of this permit, the Permittee shall inform the City of the Magnolia immediately upon becoming aware of the violation (s) and shall repeat the sampling and analysis for the pollutants in violation and must submit the results to the City of Magnolia within five (5) working days of the first violation.

SPECIFIC PROHIBITIONS

No user shall introduce or cause to be introduced into the wastewater system the following pollutants, substances, or wastewater:

- (1) Pollutants which create a fire or explosive hazard in the wastewater system, including, but not limited to, waste streams with a close-cup flash points of less than 140 degrees Fahrenheit (60 degrees Celsius) using the test methods specified in CFR 261.21;
- (2) Wastewater having a pH less than 6.0 or more than 10.0 standard units (s.u) or otherwise causing corrosive structural damage to the wastewater system or equipment;
- (3) Any solid or viscous substances in the amount which will cause obstruction of the flow throughout the wastewater system resulting in interference;
- (4) Pollutants, including oxygen-demanding pollutants (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference within the wastewater system;

SPECIFIC PROHIBITIONS (continued

- (5) Wastewater having a temperature greater than 140 degrees Fahrenheit or 40 degrees Celsius entering the treatment plant, or which will inhibit biological activity in the wastewater treatment plant resulting in interference;
- (6) Petroleum oils, non-biodegradable cutting oil or products of mineral oil origin, in amounts that will cause interference or pass through;
- (7) .Pollutants which result in the presence of toxic gases, quantity that may cause acute worker health and safety problems;
- (8) Any trucked or hauled waste, except at discharge points designated by the Superintendent.
- (9) Noxious or malodorous liquids, gases, solids, or other wastewater which, either singly or by interaction with other wastes, are sufficient to create a public nuisance or a hazard to life, or to prevent entry into the sewers for maintenance or repair;
- (10) Wastewater which imparts color which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solution, which consequently imparts color to the treatment plant's effluent, thereby violating the City of Magnolia's NPDES permit;
- (11) Wastewater containing any radioactive wastes or isotopes except in compliance with applicable State or Federal regulations;
- (12) Sludge, screenings, or other residues from the pretreatment or industrial wastes;
- (13) Medical wastes, except as specifically authorized by the Superintendent in a wastewater discharge permit;
- (14) Wastewater causing, alone or in conjunction with other sources, the treatment plant's effluent to fail toxicity test;
- (15) Detergents, surface-active agents, or other substances which may cause excessive foaming at the wastewater treatment plant;
- (16) Wastewater causing two (2) reading on an explosion hazard meter at any point of discharge into the wastewater system.

ADDITIONAL PRETREATMENT REQUIREMENTS:

Whenever deemed necessary, the Superintendent may require users to restrict their discharge during peak flow period, designate that certain wastewater be discharge only into specific sewers, relocate and/or consolidate point of discharge, separate sewage waste streams from industrial waste streams, and such other conditions as may be necessary to protect the wastewater plant and determine the user's compliance with the requirements of this ordinance.

(B) The Superintendent may require any person discharging into the wastewater system to install and maintain, on their property and at their expense, a suitable storage and flow control facility to ensure equalization of flow. A wastewater discharge permit may be issued solely for flow equalization.

(C) Grease, oil, and sand interceptors shall be provided when they are necessary the proper handling of wastewater containing excessive amounts of grease and oil, or sand; except that such interceptors shall not be required for residential users. All interception units shall be of the type and capacity approved by the Superintendent and shall Be so located to be easily accessible for cleaning inspection. Such interceptors shall be inspected, cleaned, and repaired regularly, as needed, by the user at their expense.

(D) Users with the potential to discharge flammable substance may be required to install and maintain an approved combustible gas detection meter.

(E) Users may be required at the discretion of the Superintendent to install flow meters and sampling equipment for routine monitoring of wastewater.

REPORTING REQUIREMENTS

The Permittee is to report monitoring results obtained from the effluent discharge to the City of Magnolia at least once per month. Reporting periods shall begin on the first day of the month and shall end on the last day of the month. The Permittee shall prepare regular monthly reports and shall submit these reports no later than the 15th of the month following each reporting period. The reports shall include the nature and concentration of all pollutants in the effluent from which sampling and analysis were performed during the calendar month preceding the submission of each report.

All monitoring reports submitted to the City of Magnolia shall contain the following information:

- (1) The results of analysis for pollutants and values specified in this permit and a copy of the laboratory report sheets;
- (2) The date and time of sampling, sampling methods used and who collected the sample (s);
- (3) The date and time of analysis and who performed the analysis;
- (4) The analytical techniques/method used;
- (5) The chain of custody records and any field monitoring reports regarding the collection and transport of samples;
- (6) The daily average, maximum, and total flow for the regulated process for the calendar month;

- (7) The minimum and maximum pH during the calendar month;
- (8) A complete monitoring summary signed by the facility's authorized representative;
- (9) A signed TTO signatory statement (where applicable); and
- (10) A copy of the effluent flow monitoring an pH log sheet (where applicable)
- (A) The Permittee is required to notify the City of Magnolia in writing of any discharge into the wastewater system of a substance which is otherwise disposed of would be hazardous waste under 40 CFR Part 261.
- (B) The Permittee is required to submit any additional reports, records, or data pertaining to pretreatment requirements to the City of Magnolia within the time specified for such submission.
- (C) All reports (including written and oral notification) required by the permit be submitted to the following address:

Superintendent
 City of Magnolia
 Wastewater System
 P.O. Box 666
 Magnolia, AR 71754-0666

Phone ~ (870) 234-2454
 Fax---- (870) 234-2203

- (D) All Reports are to be signed by the duly authorized representative designated by the Permittee, provided the representative is responsible for the facility from which the discharge originates.
- (E) The Permittee is also required to comply with the conditions established in the local ordinances while discharging waste into the City of Magnolia Wastewater System
- (F) The Permittee shall furnish the City of Magnolia, within specified time, all information which the City of Magnolia request to determine whether cause exists for modifying, revoking, reissuing or termination this permit , or to determine compliance with this permit. The Permittee shall also, upon request and within the specified time, provide the City of Magnolia copies of any records required by this permit.

COMPLIANCE SCHEDULE

If the Permittee is to comply with a Compliance Schedule, it must submit a detailed

description of the activities involved, indicating the days required to complete the activity, submit drawing and a schematic of any equipment installation. No later than fourteen (14) days following each date in the Compliance Schedule, the Permittee shall submit to the City of Magnolia a report including, at a minimum, whether or not it complied with the increment of progress to be met on such date and if not, the date of which it expects to comply with the increment of progress, and the reason for delay in steps being taken to return the project to the time submitted in the original schedule.

ACCIDENTAL DISCHARGE

The Permittee shall notify the City of Magnolia immediately upon the occurrence of an accidental discharge of any prohibited substances, slug loads, or spills that may enter the sanitary sewer system. The notification shall include location of the discharge, date and time the discharge occurred, the type of waste (including concentration and volume), and all corrective actions taken. The Permittee notification of accidental release of waste shall not relieve it of other reporting requirement that arise under Federal, State, and Local laws.

Within five (5) days following an accidental discharge, the Permittee shall submit to the City of Magnolia a detailed written report. This report shall contain the following information:

- (1) A description and cause of the upset, slug load or accidental discharge, and the impact on the Permittee compliance status, Location of the discharge and the type, the concentration and volume of waste;
- (2) The duration of noncompliance, including exact dates and time of noncompliance and, if the noncompliance is continuing, the time by which compliance is reasonable expected to occur; and
- (3) All steps taken or to be taken to reduce, eliminate and / or prevent recurrence of such upset, slug load, accidental discharge or condition of noncompliance.

NEW WASTEWATER CONSTITUTIENTS

The Permittee shall notify the City of Magnolia prior to the introduction of new wastewater or pollutants or any substantial change in the volume or characteristics of the wastewater being introduced into the wastewater system from the Permittee facility. The Permittee shall give notice to the City of Magnolia within ninety (90) days in advance of the facility expansion, production increase or process modification, which may result in a new or substantial increased discharge or a change in the nature of the discharge. This shall include any changes that may affect the volume or character of pollutants in the wastewater discharge.

BYPASS

The Permittee must provide immediate notice to the City of Magnolia upon becoming aware of an unanticipated bypass at the discharge location.

SIGNATURE REQUIREMENTS

All applications, reports, or information submitted to the City of Magnolia must contain the following certification statement and be signed by an authorized representative of the Permittee:

“ I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquire of the person or person who manage the system or those person(s) directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for know violation.”

SEVERABILITY

The provisions of this permit are severable. If any provision of this permit or application of any provision of this permit to any held invalid, the application of such provision to other circumstances and the remainder of the permit shall not be affected thereby.

DUTY TO COMPLY

The Permittee shall comply with all conditions of this permit. Failure to comply with the requirements of this permit may warrant enforcement proceeding including fines, criminal and civil penalties, revocation of permit and / or termination of water and /or sewer service.

COMPLIANCE WITH APPLICABLE PRETREATMENT STANDARDS

Compliance with the permit does not relieve the Permittee from its obligation regarding compliance with any and all applicable Local, State and Federal Pretreatment Standards and Requirements including any such standards or requirements that may become effective during the term of this permit,

Categorical Pretreatment Standards

The categorical pretreatment standards found in 40 CFR 405-471 are hereby incorporated.

(A) Where a categorical pretreatment is expressed only in terms of either the mass or the concentration of a pollutant in wastewater, the superintendent may impose equivalent concentration or mass limits in accordance with 40 CFR 403.6 (c).

(B) When wastewater subject to a categorical pretreatment standard is mixed with wastewater not regulated by the same standard, the Superintendent shall impose an alternative limit using the combined wastestream formula in 40 CFR 403.6 (c).

(C) A user may obtain a variance from the categorical pretreatment standard if the user can prove, pursuant to the procedural and substantive provision in 40 CFR 403.13, that factors relating to its discharge are fundamentally different from the factors considered by EPA when developing the categorical pretreatment standard.

(D) A user may obtain a net gross adjustment to a categorical standard in accordance with 40 CFR 403.15, as approved by the Superintendent.

PRODUCTION - BASED STANDARDS

Any Permittee who is subject to the production-based standards, shall report the applicable production data along with each periodic report. This data shall be reported in the units of measurements by which the mass of pollutants is regulated.

PROHIBITION OF DILUTION

The Permittee shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to comply with the limitations contained in this permit.

DUTY TO MITIGATE

The Permittee shall take all reasonable steps to minimize or correct any adverse impact to the Publicly Owned Treatment Works (POTW), or the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non complying discharge.

PROPERTY RIGHTS

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of person rights, nor any violation of, Federal, State or Local laws or regulations.

PERMIT MODIFICATION

Modifications to this permit may be made at anytime as deemed necessary by the City of Magnolia. This permit may be modified for good cause, including, but not limited to, the following reasons:

- (1) To incorporate any new or revised Federal, State or Local pretreatment standards or requirements;
- (2) Any material or substantial alteration or addition to the Permittee operation process or discharge volume or character which were not considered in drafting the effective permit;
- (3) A change in any condition in either the Permittee or the POTW that requires either temporary or permanent reduction or elimination of the discharge.
- (4) Information indicating the permitted discharge having a potential threat to the City of Magnolia collection and treatment system, personnel, or jeopardizes the receiving waters or the NPDES permit requirements;
- (5) Violation of any term, condition, limitation, or requirements of this permit;
- (6) Any misrepresentation or failure to disclose fully all relevant facts in the permit application or in any required reporting.
- (7) To correct typographical or other errors in the permit;
- (8) To Reflect transfer of the facility ownership and /or operation to a new/owner;
- (9) Upon request of the Permittee, provided such request does not create a violation of the applicable requirements, standards, laws or rules and regulations;

(10) Follow the provision of this permit and any other order entered with respect thereto.

The filing of a request by the Permittee for a permit modification, revocation or reissuance, or termination or a notification of planned changes or anticipate noncompliance does not stay permit condition

PERMIT TERMINATION

The following conditions warrant termination of this permit to discharge waste into the City of Magnolia Wastewater system. The Superintendent may revoke a wastewater discharge permit for good cause, including but not limited to the following reason:

- (A) Failure to notify the Superintendent of significant changes to the wastewater prior to the changed discharge;
- (B) Misrepresentation or failure to fully disclose all relevant facts in the wastewater discharge permit application;
- (C) Falsifying self-monitoring reports or refusal to submit requested reports;
- (D) Tampering with monitoring equipment;
- (E) Refusing to allow the Superintendent or a designated representative timely access to the facility premises and records;
- (F) Failure to meet the discharge limitations established in the permit;
- (G) Failure to pay applicable surcharges and fines assessed by the City of Magnolia;
- (H) Failure to provide reports, records, or information not deemed confidential or proprietary to the Superintendent;
- (I) Failure to provide advance notice of transfer of business ownership of a permitted facility;
- (J) Violation of any pretreatment standard or requirement, or any term of the wastewater discharge permit; or
- (K) Failure to appear at meetings when requested by the Superintendent.

PERMIT APPEALS

The Permittee may petition to appeal the terms of this permit within (30) thirty days of the effective date of the permit. The petition to appeal must meet the following conditions:

- (1) This petition must be in writing.
- (2) Failure to submit a petition in writing for review shall be deemed to be a waiver of the appeal.
- (3) In the petition, the Permittee shall indicate the permit provision to which it objects, the reason for this rejection an alternate conditions, if any, it seeks to be placed in the permit

RECONSIDERATION OF A PERMIT

The filing of a request by the Permittee for a permit modification, revocation, re-issuance, termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. The effectiveness of this shall not be stayed pending reconsideration by the City of Magnolia, however, at the discretion of the City, provisions which are being reconsidered may be stayed. If, after considering the petition any argument put forth, the City of Magnolia determines that reconsideration is proper, a new permit or an amendment shall be issued. The City of Magnolia decision not to reconsider a permit shall be considered final.

DUTY TO REAPPLY

If the Permittee wishes to continue an activity regulated by this permit after the expiration date, an application for a new permit must be submitted a least ninety (90) before the expiration date. The Permittee is not authorized to discharge following the expiration date unless written consent is provided by the City of Magnolia.

CONTINUATION OF EXPIRED PERMITS

An expired permit will continue to be effective and enforceable until a new permit is issued if:

- (1) The Permittee has submitted a completed application at least ninety (90) days prior to the expiration date of the existing permit;
- (2) The failure to reissue the permit prior to the expiration date is not due to any act or failure on the part of the Permittee;
- (3) The new permit can not be drafted until an ongoing extensive evaluation or study of the Permittee's facility is completed, as required by the City of Magnolia.

PROPER OPERATION AND MAINTENANCE

The Permittee shall at all time properly operate and maintain all facilities and systems of treatment and control and related appurtenances which are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes, but is not limited to, effective performance, adequate funding, having adequate operating staff and proper training in laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup and auxiliary facilities or similar systems only when necessary to achieve compliance with the condition of this permit.

DUTY TO HALT OR REDUCE ACTIVITY

Upon the reduction of the efficiency, operational loss or failure of all or part of the treatment facility, the Permittee shall, to the extent necessary to maintain compliance with this permit, control production or discharge, or both until operation of the treatment facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the condition of this permit.

BYPASS OF TREATMENT FACILITIES

Bypass or diversion of wastes from any portion of the treatment facilities is prohibited unless the following conditions are met.

- (1) Bypassing is unavoidable to prevent loss of life, personal injury or severe property damage;
- (2) There is no feasible alternatives to bypass such as the use of auxiliary treatment facilities,
retention of untreated wastes or maintenance during normal periods of equipment down time. This condition is not satisfied if the Permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal period of equipment down time or preventive maintenance.
- (3) The Permittee shall submit notification of bypass as follows:
 - (A) Anticipated: If the Permittee knows in advance of the need for bypass, it shall submit prior written notice to the Permittee at least ten (10) days before the date of the bypass.
 - (B) Unanticipated: The Permittee shall, by telephone, notify the Permittee immediately of an unanticipated bypass and shall submit a written report within (5) days. This report shall contain:
 - I. A description of the bypass, its cause and its duration.
 - II. Whether the bypass has been corrected; and
 - III. Steps being taken to reduce, eliminate and prevent recurrence of the bypass.

OPERATING UPSETS

The Permittee shall maintain and operate all pretreatment facilities in such a manner and condition as to ensure the efficiency and prevent prohibited discharges.

Any Permittee that experiences an upset in operation that places the Permittee in a temporary state of noncompliance with the provisions of this permit or with Ordinances # 90-3 or 95-12 shall inform the City of Magnolia at (870) 234-2454, immediately upon becoming aware of the upset, A written follow-up report of the upset shall be filed with the City of Magnolia within five (5) days. The report shall specify:

- (1) Description of the upset , the cause(s) thereof and the impact on the Permittee compliance status;
- (2) Duration of the noncompliance, including exact dates and times of noncompliance, and if not corrected the anticipated time the noncompliance is expected to continue; and

(3) All steps taken or being taken to reduce , eliminate and prevent recurrence of the upset.

The report shall also demonstrate the treatment facility was being properly operated in a safe and prudent manner during the time of upset.

A documented and verified operational upset shall be an affirmative defense to any enforcement action brought against the Permittee for violations attributed to the upset.

PROTECTION FROM ACCIDENTAL DISCHARGE

The Permittee shall provide protection from the accidental discharge of prohibited material or other substances regulated by Federal, State, or Local regulations or standards.

Upon request, a detailed plan showing facilities and operating procedures to provide this protection shall be submitted to the City of Magnolia for review and approval.

REMOVED SUBSTANCES

Solids, Sludge, filter back wash or pollutants removed in the treatment course of wastewater shall be either utilized by industry or disposed of in accordance with section 405 of the Clean Water Act and subtitles C and D of the Resource Conservation And Recovery Act (RCRA).

FACILITY MONITORING AND INSPECTION

(A) Representative Samples

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring location specified in the permit and, unless otherwise specified, before the effluent joins or is mixed with other waste stream(s), body of water or substance. All equipment used for sampling and analysis shall have an internal calibration at least annually and must be inspected and maintained to assure their accuracy by a certified technician. A copy of the annual calibration check must be furnished to the City of Magnolia. During routine monitoring, equipment must be calibrated and properly set to collect the required samples at the Permittee facility.

Monitoring location shall not be changed without written notification to, and by the City of Magnolia. The Permittee shall request within thirty (30) days any request for change in the monitoring location. All cost for monitoring, analysis of samples, and data generation shall be borne by the Permittee.

(B) Flow Equipment:

If flow monitoring equipment is installed, methods consistent with approved scientific practices shall be selected and used to ensure accuracy and reliability of measurement and volume of the monitored discharge. The equipment shall be installed, calibrated and maintained to ensure the accuracy of the measurements are consistent with the acceptable capability of the type of device. However, in no case shall the flow equipment measurement be more than 10 % of the actual flow discharged.

(C) Inspection and Entry

The Permittee shall allow the City of Magnolia or a authorized representative, upon the presentation of credentials, to:

- (1) Enter upon the Permittee premises where a regulated facility or activity is located or where records are maintained. All records and reports must be kept as a condition of this Permit;
- (2) Have access to any and copy any records which must be kept under conditions of this permit involving the wastewater characteristics and discharge without restriction unless the Permittee specifically request that the release of such information , process or methods of production entitled to protection as trade secrets, or proprietary information;
- (3) Inspect, at any reasonable time, including time of emergency, any facility equipment, practices or operation regulated under this permit;
- (4) Sample or monitor, for the purpose of assuring permit compliance, any substance or parameters at any location; and
- (5) Inspect any production, manufacturing, fabrication or storage are where pollutants, regulated under this permit or local ordinance could originate, be stored or be discharged into the sewer system.

RETENTION OF RECORDS

The Permittee shall retain records of all monitoring information including all calibration and maintenance records and all original recording charts of continous monitoring instrumentation (*where applicable*) and records of all data used to complete the application for this permit, for a period of three (3) years. This period may be extended at anytime by the request of the City of Magnolia.

Destroying any past or current report or changing information as to falisify report or records may result in punishment under the criminal laws of the City of Magnolia, as well as being subjected to civil penalties and relief.

FALSIFYING INFORMATION

Knowingly making a false statement on a report or other document required by this permit or knowingly render any monitoring device or method inaccurate is a crime and may result in the imposition of criminal sanctions and / or civil penalties.

CIVIL AND CRIMINAL LIABILITY

Nothing in the permit shall be construed to relieve the Permittee from civil and / or criminal penalties for noncompliance under Federal, State, or Local laws or regulation;

A facility found to be in violation of any provision of the permit, local ordinance, or Federal Standard who is served with a written notice stating the nature of the violation and provided a reasonable time for satisfactory correction shall permanently cease all violations.

A Permittee who continues any violation beyond the time limit shall be subject to penalties, including, but not limited to, fines, revocation of permit, and / or termination of water and / or sewer services. When the Superintendent finds that a user has violated, or continues to violate any provision of the Sewer Use Ordinances., Wastewater Permit, Pretreatment standards or requirements, the Superintendent may fine such user in an amount not to exceed \$1,000 per day per each noncompliance incident. In case of monthly

or other long-term average discharge limits, fines shall be assessed for each day during the period of violation.

In addition to civil and criminal liability, the Permittee violating any provision of this permit or Local Ordinance or causing damage to / or otherwise inhibiting the City of Magnolia wastewater disposal system shall be liable to the City of Magnolia for any expense, loss of damage caused by such violation (s) or discharge (s) .

The City of Magnolia shall bill the Permittee for the cost incurred for any cleaning, repair or replacement work caused by the violation. Refusal to pay the assessed cost shall constitute a separate violation of the ordinance.

CONFIDENTIAL INFORMATION

Information and data on a user obtained from reports, surveys, wastewater discharge permits, and monitoring programs, and from the Superintendent's inspection and sampling activities, shall be available to the public without restriction, unless the user specifically requests, and is able to demonstrate to the satisfaction of the Superintendent, that the release of such information would divulge information, processes, or methods of production entitle to protection as trade secrets under applicable State Law. Any such request may be asserted at the time of submission of the information or data. When requested and demonstrated by the user, by furnishing a report that such information should be confidential, the portions of a report which might disclose trade secrets or secret processes shall not be available for inspection by the public, but shall be made available immediately upon request to governmental agencies for use related to the NPDES program or pretreatment program, and in enforcement proceedings involving the person furnishing the report.

DEFINITIONS OF TERMS

Bypass: -The intentional diversion of wastewater from any portion of a treatment facility.

Composite Sample - A sample collected over time formed either by continuous sampling or by mixing discrete samples. The sample may be composited as a "time composite" (discrete sample aliquots or equal proportion collected in one (1) container at constant time intervals providing representative samples irrespective of stream flow) Composite samples shall be collected over a twenty-four (24) hour period. If the discharge is less than twenty-four (24) hours per day, the composite shall consist of at least four (4) parts collected during the operational hours of a twenty-four (24) hour periods. Aliquots shall be collected at time intervals not to exceed two (2) hours.

Cooling Water-

A. Uncontaminated cooling water - is water used for cooling purposes only which has no direct contact with any raw material, intermediate or final product and which does not contain contaminants detectable higher than that of the intake water.

B. Contaminated cooling water - is water used for cooling which may become contaminated either throughout the use of water treatment chemicals used for corrosion inhibitors or biocides or by direct contact with process material and / or wastewater.

Daily Maximum - The maximum allowable discharge or pollutant during a calendar day. Where daily maximum limitations are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limitation are expressed in concentration, the daily discharge shall not exceed the arithmetic average measurement taken that day .

Grab Sample - - An individual sample collected in less than fifteen minutes.

Monthly Average - the arithmetic average of the values for effluent samples collected during a calendar month.

Permittee - means an industrial, commercial, or non-residential user, which introduce pollutants from non-domestic sources into the municipal wastewater system.

POTW - Publicly Owned Treatment Works.

Severe Property Damage - Substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

Sludge - means the solids, residues, and precipitate separated from, or created in created in sewage by the unit process or publicly owned treatment works.

Total Toxic Organics - means the sum of the concentrations of all toxic organic pollutants.

Upset - An exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit effluent limitation because of factors beyond the reasonable controls of the Permittee, excluding such factors as operational error, improper designed or inadequate treatment facilities or improper operation and maintenance or lack thereof.

**Permit
Application
Southern
Aluminum**

Finch Environmental, PLC

9 Heritage Park Circle
North Little Rock, Arkansas 72116-8528

*Municipal and Industrial
NPDES Storm Water
Pollution Prevention Plans
Control Plans Environmental Permitting
Reporting Hazardous Waste
Pretreatment*

RECEIVED *Aug 31 2012*

8/29/2012

Mr. Russell Thomas
City of Magnolia,
P.O. Box 666
Magnolia, AR 71754

Re: Southern Aluminum Manufacturing Company, Inc. Industrial Wastewater Discharge Information

Dear Mr. Thomas,

Please find attached a completed Industrial Wastewater Discharge Information form on behalf of Southern Aluminum Manufacturing Company, Inc.

You will also find five (5) attachments to the form to more accurately explain the wastewater discharge situation at the plant.

Please accept this information and contact me with questions.

Thank you.

Sincerely,

Bernie K. Finch

Bernie K. Finch
Finch Environmental, PLC

Attachments

CITY OF MAGNOLIA
Wastewater Treatment

**Industrial Wastewater
DISCHARGE PERMIT APPLICATION**

Date: 08-27-2012

SECTION A – GENERAL INFORMATION

1. Facility Name:

Southern Aluminum Manufacturing Company, Inc.

Operator/Manager(s) Name(s) :

Same as above

Is the operator identified in 1, the owner of the facility? Yes No

If no, provide the name and address of the operator and submit a copy of the contract and/or other documents indicating the operator's scope of responsibility for the facility.

Name	N/A
Title	
Address	
City, State	
Zip Code	

2. Facility Address:

Street	5 Highway 82 Bypass
City	Magnolia
State	AR
Zip Code	71753

3. Business Mailing Address:

P.O. Box	884
Street	5 Highway 82 Bypass
City	Magnolia
State	AR
Zip	71753

4. Designated signatory authority of the facility:
 (Attach similar information for each authorized representative)

Name	Leon M. Ryan
Title	Vice President/General Manager
Street	5 Highway 82 Bypass
City	Magnolia
State	AR
Zip	71753
Phone	870-234-8660
Fax	870-234-7351
Mobile	n/a
Email	lryan@southernaluminum.com

5. Designated facility contact:

Name	Colleen Tuggle
Title	Director Human Resources
Phone	870-234-8660
Mobile	n/a
Email	ctuggle@southernaluminum.com

SECTION B - BUSINESS ACTIVITY

1. If your facility employs or will be employing processes in any of the industrial categories or business activities listed below (regardless of whether they generate wastewater, waste sludge, or hazardous wastes), place a check beside the category or business activity (check all that apply).

Industrial Categories *

- Aluminum Forming
- Asbestos Manufacturing
- Battery Manufacturing
- Can Making
- Carbon Black
- Coal Mining
- Coil Coating
- Copper Forming
- Electric and Electronic Components Manufacturing
- Electroplating
- Feedlots
- Fertilizing Manufacturing
- Foundries (Metal, Molding and Casting)
- Glass Manufacturing

- Grain Mills
- Inorganic Chemicals
- Iron and Steel
- Leather Tanning and Finishing
- Metal Finishing
- Nonferrous Metals Forming
- Nonferrous Metals Manufacturing
- Organic Chemicals Manufacturing
- Paint and Ink Formulating
- Paving and Roofing Manufacturing
- Pesticides Manufacturing
- Petroleum Refining
- Pharmaceutical
- Plastic and Synthetic Materials Manufacturing
- Plastic Processing Manufacturing
- Porcelain Enamel
- Pulp, Paper, and Fiberboard Manufacturing
- Rubber
- Soap and Detergent Manufacturing
- Steam Electric
- Sugar Processing
- Textile Mills
- Timber Products

A facility with processes inclusive in these business areas may be covered by Environmental Protection Agency's (EPA) categorical pretreatment standards. These facilities are termed "categorical users".

2. Give a comprehensive description of all operations at this facility including primary products or services. (attach additional sheets as necessary):

~~Southern Aluminum purchases clean, dry-wrapped aluminum extrusions.
 Extrusions are bolted together and cut to size.
 Extrusions are hung on the paint line conveyor.
 Products are washed, rinsed and placed in a dry off oven at 400 degrees F.
 Products are then painted and placed in the oven at 400 degrees F.
 Products are then removed and sent to assembly.~~

3. Indicate applicable Standard Industrial Classification (SIC) for all processes (If more than one applies, list in descending order of importance.):

Process	SIC Code
Metal Furniture	2514

--	--

4. PRODUCT VOLUME:

Past Calendar Year

Product	Average (Daily Units)	Maximum (Daily Units)
Aluminum Tables	300	300

Estimated This Calendar Year

Product	Average (Daily Units)	Maximum (Daily Units)
Aluminum Tables	400	400

SECTION C – WATER SUPPLY

1. Water Sources: (check as many as are applicable)

(Note: Double click on box to place check mark)

- Private Well
- Surface Water
- Municipal Water Utility

(Specify City):

City of Magnolia

Other (Specify):

2. Water Utility Service Information :

Name on Utility Invoice	Southern Aluminum Company
Street	5 Highway 82 Bypass
City	Magnolia
State	AR
Zip Code	71753
Water Service Account #	27070000

3. List average water usage on premises:

(New facilities may estimate)

Type	Average Water Usage (GPD)	Indicate Estimated (E) or Measured (M)

Contact cooling water	0	M
Non-contact cooling water	0	M
Boiler feed	0	M
Process	30	E
Sanitary	1000	E
Air pollution control	0	M
Contained in product	0	E
Equipment and washdown	0	M
Irrigation and lawn care	0	M
Other	0	M
Total	1030	E

SECTION D – SEWER INFORMATION

1. a. For an existing business:

Is the building presently connected to the public sanitary sewer system?

YES: Sanitary sewer account number

27070000

NO: Have you applied for a sanitary sewer hookup? YES NO

b. For a new business:

(i). Will you be occupying an existing vacant building (such as in an industrial park)? YES NO

(ii). Have you applied for a building permit if a new facility will be constructed? YES NO

(iii). Will you be connected to the public sanitary sewer system?
 YES NO

2. List size, descriptive location, and flow of each facility sewer which connects to the City's sewer system. (If necessary, attach additional information on another sheet.)

Sewer Size (in inches)	Descriptive Location of Sewer Connection or Discharge Point	Average Flow (Gallons Per Day)
4" PVC Process	#9 (see att. dwg.)	30 (quarterly batch)
4" PVC Sanitary	#3 (see att. dwg.)	1000 (estimated)

SECTION E – WASTEWATER DISCHARGE INFORMATION

1. Does (or will) this facility discharge any wastewater other than from restrooms to the City sewer?

YES If the answer to this question is "YES", complete the remainder of the application.

NO If the answer to this question is "NO", skip to Section I.

2. Provide the following information on wastewater flow rate.
[New facilities may estimate]

Hours per Day Discharged (example, 8 hours / day)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1	1	1	1	N/A	N/A

Hours of Discharge (example, 9am to 5pm)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
4P	4P	4P	4P	4P	N/A	N/A

Peak Hourly Flow Rate (GPD)	Please see Attachment 2
Maximum Daily Flow Rate (GPD)	Please see Attachment 2
Annual Daily Average (GPD)	Please see Attachment 2

3. If batch discharge occurs or will occur, indicate:
(New facilities may estimate)

Number of batches per day	Attachment 2
Average discharge per batch (GPD)	Attachment 2
Day(s) of week discharges occur	Attachment 2
Time(s) of discharge (indicate am or pm)	4P
Flow rate (gallons per minute)	Attachment 2
Percent of total discharge	Attachment 2

4. Schematic Flow Diagram – For each major activity in which wastewater is or will be generated, draw a diagram of the flow of materials, products, water, and wastewater from the start of the activity to its completion, show all unit processes. Indicate which processes use water and which generate waste streams. Include the average daily volume and maximum daily volume of each waste stream (new facilities may estimate). If estimates are used for flow data this must be indicated. Number each unit process having wastewater discharges to the community sewer. Use these numbers when showing these unit processes in the building layout in Section H. This drawing must be certified by a State Registered Professional Engineer.

Facilities that checked activities in question 1 of Section B are considered Categorical Industrial Users and should skip to question 6.

5. For Non-Categorical Users Only: List average wastewater discharge, maximum discharge, and type of discharge (batch, continuous, or both), for each plant process. Include the reference number from the process schematic that corresponds to each process. (New facilities should provide estimates for each discharge).

Number	Process Description	Average Flow (GPD)	Maximum Flow (GPD)	Type of Flow (batch, continuous, none)
N/A				

ANSWER QUESTION 6 & 7 ONLY IF YOU ARE SUBJECT TO CATEGORICAL PRETREATMENT STANDARDS.

6. For Categorical Users: Provide the wastewater discharge flows for each of your processes or proposed processes. Include the reference number from the process schematic that corresponds to each process. (New facilities should provide estimates for each discharge).

Number	Regulated Process	Average Flow (GPD)	Maximum Flow (GPD)	Type of Flow (batch, continuous, none)
5	Dip Tank	N/A	1000	batch (1/year)*
6	Wash Pnt. Line	N/A	2050	batch (4/year)*
7	Rinse Pnt. Line	N/A	832	batch (2/week)*

* Please see Attachment 2

Number	Unregulated Process	Average Flow (GPD)	Maximum Flow (GPD)	Type of Flow (batch, continuous, none)
1	Kitchen Sink	See Below	See Below	Intermittent
2	Office Rest Rms.	See Below	See Below	Intermittent
3	Plant Rest Rms.	See Below	See Below	Intermittent
4	Brk. Room Sink	See Below	See Below	Intermittent

* Sources numbered 1 through 4 consist of domestic sanitary

Number	Dilution	Average Flow (GPD)	Maximum Flow (GPD)	Type of Flow (batch, continuous,

				none)

7. For Categorical Users Subject to Total Toxic Organic (TTO) Requirements:

Provide the following (TTO) information.

a. Does (or will) this facility use any of the toxic organics that are listed under the TTO standard of the applicable categorical pretreatment standards published by EPA?

- YES
 NO

b. Has a baseline monitoring report (BMR) been submitted which contains TTO information?

- YES
 NO

c. Has a toxic organics management plan (TOMP) been developed?

- YES
 NO

8. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

Current: Flow Metering YES NO N/A
Sampling Equipment YES NO N/A

Planned: Flow Metering YES NO N/A
Sampling Equipment YES NO N/A

If so, please attach drawings of the present or future location of this equipment and describe the equipment below:

N/A

9. Are any process changes or expansions planned during the next three years that

could alter wastewater volumes or characteristics? Consider production processes as well as air or water pollution treatment processes that may affect the discharge.

- YES
- NO (skip question 10)

10. Briefly describe these changes and their effects on the wastewater volume and characteristics: (Attach additional sheets if needed.)

N/A

11. Are any materials or water reclamation systems in use or planned?

- YES
- NO (skip question 12)

12. Briefly describe recovery process, substance recovered, percent recovered, and the concentration in the spent solution. Submit a flow diagram for each process: (Attach additional sheets if needed.)

N/A

SECTION F - CHARACTERISTICS OF DISCHARGE

All current industrial users are required to submit monitoring data on all pollutants that are regulated specific to each process. Use the tables provided in this section (starting on page 12) to report the analytical results.

(U) for unknown.

For all other (non-regulated) pollutants, indicate whether the pollutant is; known to be present (P), suspected to be present (S), or known *not* to be present (O), by placing the appropriate letter in the column for average reported values.

New dischargers should use the table to indicate what pollutants will be present or are suspected to be present in proposed waste streams by placing a; (P) expected to be present, (S) may be present, or (O) will not be present under the average reported values.

Pollutant	Detection Level Used mg/l	Maximum Daily Value		Average of Analysis		Number of Analyses
		mg/l	lbs./day	mg/l	lbs./day	
Acenaphthylene				0		
Acrolein				0		
Acrylonitrile				0		
Benzene				0		
Benzidene				0		
Carbon Tetrachloride				0		
Chlorobenzene				0		
1,2,4-Trichlorobenzene				0		
Hexachlorobenzene				0		
1,2-Dichloroethane				0		
1,1,1-Trichloroethane				0		
Hexachloroethane				0		
1,1-Dichloroethane				0		
1,1,2-Trichloroethane				0		
1,1,2,2-Tetrachloroethane				0		
Chloromethane				0		
Bis (2-chloroethyl) ether				0		
17 Bis (chloro methyl) ether				0		
2-Chloroethyl vinyl ether				0		
2-Chloronaphthalene				0		
2,4,5-Trichlorophenol				0		
Parachlorometa cresol				0		
Chloroform				0		
2-Chlorophenol				0		
1,2-Dichlorobenzene				0		
1,3-Dichlorobenzene				0		
1,4-Dichlorobenzene				0		
3,3-Dichlorobenzidene				0		
1,1-Dichloroethylene				0		
1,2-Trans-dichloroethylene				0		
2,4-Dichlorophenol				0		
1,2-Dichloropropane				0		
1,2-Dichloropropylene				0		
1,3-Dichloropropylene				0		
2,4-Dimethylphenol				0		
2,4-Dinitrotoluene				0		
2,6-Dinitrotoluene				0		
Diphenolhydrazine				0		
Ethyl benzene				0		
Fluoranthane				0		
4-Chlorophenyl phenyl ether				0		
4-Bromophenyl phenyl ether				0		

Pollutant	Detection Level Used mg/l	Maximum Daily Value		Average of Analysis		Number of Analyses
		mg/l	lbs./day	mg/l	lbs./day	
Bis (2-chlorisopropyl) ether				0		
Bis (2-chloroethoxy) methane				0		
Methylene Chloride				0		
Methyl chloride				0		
Methyl bromide				0		
Bromoform				0		
Dichlorobromomethane				0		
Chlorodibromomethane				0		
Hexachlorobutadiene				0		
Hexachlorocyclopentadiene				0		
Isophorone				0		
Naphthalene				0		
Nitrobenzene				0		
Nitrophenol				0		
2-Nitrophenol				0		
4-Nitrophenol				0		
2,4-Dinitrophenol				0		
4,6-Dinitro-o-cresol				0		
N-nitrosodimethylamine				0		
N-nitrosodiphenylamine				0		
N-nitrosodi-n-propylamine				0		
Pentachlorophenol				0		
Phenol				0		
Bis (2-ethylhexyl) phthalate				0		
Butyl benzyl phthalate				0		
Di-n-butyl phthalate				0		
Di-n-octyl phthalate				0		
Diethyl phthalate				0		
Dimethyl phthalate				0		
Benzo (a) anthracene				0		
Benzo (a) pyrene				0		
3,4-benzofluoranthene				0		
Benzo (k) fluoranthane				0		
Chrysene				0		
Acenaphthylene				0		
Anthracene				0		
Benzo (ghi) perylene				0		
Fluorine				0		
Phenanthrene				0		
Dibenzo (ah) anthracene				0		
Indeno (1,2,3,-cd) pyrene				0		
Pyrene				0		

Pollutant	Detection Level Used mg/l	Maximum Daily Value		Average of Analysis		Number of Analyses
		mg/l	lbs./day	mg/l	lbs./day	
Tetrachloroethylene				0		
Toluene				0		
Trichloroethane				0		
Vinyl chloride				0		
Aldrin				0		
Dieldrin				0		
Chlordane				0		
4,4-DDT				0		
4,4-DDE				0		
4,4-DDD				0		
Alpha-endosulfan				0		
Beta-endosulfan				0		
Endosulfan sulfate				0		
Endrin				0		
Endrin adepnyde				0		
Heptachlor				0		
Heptachlor epoxide				0		
Alpha-BHC				0		
Beta-BHC				0		
Gamma-BHC				0		
Delta-BHC				0		
PCB-1242				0		
PCB-1254				0		
PCB-1221				0		
PCB-1232				0		
PCB-1248				0		
PCB-1260				0		
PCB-1016				0		
Toxaphene				0		
TCDD				0		
Asbestos				0		
Acidity				0		
Alkalinity				0		
Bacteria				0		
BOD ₅				0		
COD				0		
Chloride				0		
Chlorine				0		
Fluoride				0		
Hardness				0		
Magnesium				0		
NH ₃ -N				0		

Pollutant	Detection Level Used mg/l	Maximum Daily Value		Average of Analysis		Number of Analyses
		mg/l	lbs./day	mg/l	lbs./day	
Oil and Grease				0		
T.S.S.				0		
Total Organic Carbon				0		
Kjeldahl N				0		
Nitrate-N				0		
Nitrite-N				0		
Organic N				0		
Orthophosphate P				0		
Phosphorus				0		
Sodium				0		
Specific Conductivity				0		
Sulfate				0		
Sulfide				0		
Sulfite				0		
Antimony				0		
Arsenic				0		
Barium				0		
Beryllium				0		
Cadmium				*		
Chromium				*		
Copper				*		
Cyanide				*		
Lead				*		
Mercury				*		
Nickel				*		
Selenium				0		
Silver				*		
Thallium				0		
Zinc				*		

* Please see Attachment 1

Indicate on the following table, the type of analysis used for each analyte found to be present. Be sure methods conform to 40 CFR Part 136; if they do not, indicate what method was used.

Analyte Detected	Method of Analysis Used
ZINC, TOTAL	EPA 200.8

SECTION G – TREATMENT

1. Is any form of wastewater treatment (see list below) practiced at this facility?

- Yes
 No

2. Is any form of wastewater treatment (or changes to existing wastewater treatment) planned for this facility within the next three years?

- Yes, describe:

Treatment may be planned and implemented based on results of upcoming analytical results.

- No *

3. Treatment devices or processes used or proposed for treating wastewater or sludge (check as many as appropriate).

- Air flotation
- Centrifuge
- Chemical precipitation
- Chlorination
- Cyclone
- Filtration
- Flow equalization
- Grease or oil separation, list type

- Grease trap (if checked, submit a detailed drawing)
- Grinding filter
- Grit removal
- Ion exchange
- Neutralization, pH correction
- Ozonation
- Reverse osmosis
- Screen
- Sedimentation
- Septic tank

- Solvent separation
- Spill protection
- Sump
- Biological treatment,
Type:
- Rainwater diversion or storage
- Other chemical treatment,
Type:
- Other physical treatment,
Type:
- Other,
Type:

4. Description:

Describe the pollutant loadings, flow rates, design capacity, physical size, and operating procedures of each treatment facility checked above.

N/A. No treatment currently utilized.

5. Attach a process flow diagram for each existing treatment system. Include process equipment, by-products, by product disposal method, waste and by-product volumes, and design and operating conditions.

6. Describe any changes in treatment or disposal methods planned or under construction for wastewater discharge to the sanitary sewer. Please include estimated completion dates.

N/A. None planned.

7. Do you have a treatment operator? Yes No (If Yes,)

Name	N/A
Title	
Phone	
Mobile (cell)	

Email

Full Time (specify hours, days of week)	<input type="text"/>
Part Time (specify hours, days of week)	<input type="text"/>

8. Do you have a manual on the correct operation of your treatment equipment?
 Yes No
9. Do you have a written maintenance schedule for your treatment equipment?
 Yes No

SECTION H - FACILITY OPERATIONAL CHARACTERISTICS

1. Shift Information

2. Indicate whether the business activity is:

- Continuous through the year, or
 Seasonal – Check the months of the year during which the business activity occurs:

Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sept.
Oct. Nov. Dec.

Comments:

3. Indicate whether the facility discharge is:

- Continuous through the year, or
 Seasonal – check the months of the year during which the business activity occurs:

Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sept.
Oct. Nov. Dec.

Comments:

4. Does operation shut down for vacation, maintenance, or other reasons?

No

Yes, indicate reasons and period when shutdown occurs:

List types and amounts (mass or volume per day) of raw materials used or planned for use (attach list if needed):

Raw Material	Mass or Volume per Day
Aluminum	8846 lbs/day (dry - wrapped)

5. List type and quantity of chemicals used or planned for use (attach list if needed). Include copies of Manufacturer's Safety Data Sheets for all chemicals identified:

CHEMICAL	QUANTITY	UNITS ml/s/Liters/Gallons	TIME FRAME Day, Mo., Year
Steelcote 315B	3 x 55 gallon drums	165 gallons	continuously at plant
Paints	variable quantity	N/A	continuously at plant
Isopropyl Alcohol	Variable quantity	N/A	Continuously at plant
Detergents/soaps	Variable quantity	N/A	continuously at plant
* Please see Material Safety Data Sheets (MSDS)			

6. Building Layout – Draw to scale the location of each building on the premises. Show map orientation and location of all water meters, storm drains, numbered unit

processes (from schematic flow diagram), public sewers, and each facility sewer line connected to the public sewers. Number each sewer and show existing and proposed sampling locations. This drawing **must** be certified by a State Registered Professional Engineer.

A blueprint or drawing of the facilities showing the above items must be attached with this application.

SECTION J – NON DISCHARGED WASTES

1. Are any waste liquids or sludges generated and **not** disposed of in the sanitary sewer system?

- Yes, please describe below
 No, skip the remainder of Section J

Waste Generated	Quantity (per year)	Disposal Method	On site	Off site (Indicate State, County)

2. Indicate which wastes identified above are disposed of at an off-site treatment facility and which are disposed of on-site.
3. If any of your wastes are sent to an off-site centralized waste treatment facility, identify the waste and the facility.
4. If an outside firm removes any of the above checked wastes, state the name(s) and address(es) of all waste haulers:

Business Name	
Street	
P.O. Box	
City, State	
Zip Code	
Permit Number	
Telephone	

5. Have you been issued any Federal, State, or local environmental permits?

- Yes
 No

If yes, please list the permit(s):

Permitting Entity	Permit Number

SECTION I – SPILL/SLUG LOAD PREVENTION

1. Do you have chemical storage containers, bins, or ponds at your facility?

- YES
 NO

If yes, please give a detailed description of their location, contents, size, type, and frequency and method of cleaning. Also indicate in a diagram or comment on the proximity of these containers to a sewer or storm drain. Indicate if buried metal containers have cathodic protection.

Three (3) 55 gallon containers of Steelcote 315B near covered dip tank.
Floor drain nearby.
Variable quantities of paints, isopropyl alcohol and detergents/soaps. No floor drains or storm drains nearby.

2. Are there floor drains in the manufacturing or chemical storage area(s)?

- YES
 NO

If yes; where do they discharge to?

N/A

3. If you have chemical storage containers, bins, or ponds in manufacturing area, could an accidental spill lead to a discharge to: (check all that apply).

- an onsite disposal system
- public sanitary sewer system (e.g. through a floor drain)
- storm drain
- to ground
- other, specify:
- not applicable, no possible discharge to any of the above routes

4. Do you have an accidental spill/slug load prevention plan to prevent spills of chemicals or slug discharges from entering the Control Authority's collection systems?

- Yes - (Please enclose a copy with the application)
- No
- N/A, Not applicable since there are no floor drains and/ or the facility discharge (s) only domestic wastes.

5. Please describe below any previous spill events and remedial measures taken to prevent their reoccurrence.

None

SECTION K – AUTHORIZED SIGNATURES

Compliance certification:

1. Are all applicable Federal, State, or local pretreatment standards and requirements being met on a consistent basis?

- YES
- NO
- Not yet discharging

2. If No:

- a. What additional operations and maintenance procedures are being considered to bring the facility into compliance? Also, list additional treatment technology or practice being considered in order to bring the facility into compliance.
- b. Provide a schedule for bringing the facility into compliance. Specify major events planned along with reasonable completion dates. Note that if the Control Authority issues a permit to the applicant, it may establish a schedule for compliance different from the one submitted by the facility.

Milestone Activity *	Completion Date
* Sampling effort planned for 09/12	
will aid in determining if pre-treatment of process water is necessary.	

AUTHORIZED REPRESENTATIVE STATEMENT:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Official who compiled reported data for this report

Name: (Printed)	Leon M. Ryan
Title:	Vice President/General Manager
Signature:	<i>Leon Ryan</i>
Date:	8-30-12
Phone:	870-234-8660

Official Signatory for this document

Name: (Printed)	Leon M. Ryan
Title:	Vice President/General Manager
Signature:	<i>Leon Ryan</i>
Date:	8-30-12
Phone:	870-234-8660

Attachment 1 - Section F

City of Magnolia Wastewater Treatment
Industrial Wastewater
Discharge Permit Application

Southern Aluminum Company, Inc.
Hwy 82 Bypass
P.O. Box 884
Magnolia, AR 71754

Please see below analytical results from sampling on July 6, 2012. The samples consisted of four flow weighted composite samples from the wash tank, the rinse tank and the dip tank (all of the core and ancillary regulated processes). The results are shown below.

Wash Tank + Rinse Tank + Dip Tank (flow- weighted composite sample number)	Results (mg/l) for Metals; (s.u.) for pH							
	CN	Cr	Ni	Cu	Zn	Ag	Cd	Pb
Detection Level Achieved	0.01 mg/l	1.0 ug/l	0.5 ug/l	0.5 ug/l	1.0 g/l	0.5 ug/l	0.1 ug/l	0.5 ug/l
1	0.01	0.016	0.038	0.051	2.073	0.019	0.0001	0.002
2	0.01	0.016	0.037	0.046	2.080	0.0005	0.0001	0.001
3	0.01	0.018	0.035	0.048	2.071	0.0005	0.0001	0.001
4	0.01	0.016	0.034	0.048	2.070	0.0005	0.0001	0.002

As indicated by the results shown above the monthly average limit (40 CFR 433.17) for zinc was exceeded (PSNS limits = 1.48 mg/l). However, compliance with the daily maximum limit was achieved (2.61 mg/l).

Compliance with all other applicable PSNS (40 CFR 433.17) limitations was achieved.

Southern Aluminum continues to explore adjusting discharge scenarios which will include discharging rinse water during any discharge from the other two regulated sources (dip tank or wash tank) and discharging water from the wash tank or dip tank before the concentration of zinc will cause a non-compliance event. Southern Aluminum also continues to explore treatment options. Your office will be kept updated on progress.

Attachment 2 - Section E

Discharge Description
Process Flow Schematic
Building Layout Drawing

City of Magnolia Wastewater Treatment
Industrial Wastewater
Discharge Permit Application

Southern Aluminum Company, Inc.
Hwy 82 Bypass
P.O. Box 884
Magnolia, AR 71754

Discharge Description

Southern Aluminum discharges various non-categorical and categorical waste streams.

Non-Categorical

These waste streams consist of domestic sanitary sources (office kitchen sink, office rest rooms, plant rest rooms and break room sink). The discharge from these sources is intermittent with flow estimated to be 1000 gallons per day, Monday through Friday during the hours of 0700 to 0000 hours.

Categorical

These waste streams consist of metal finishing (40 CFR 433) related sources, both core and ancillary.

Core Processes

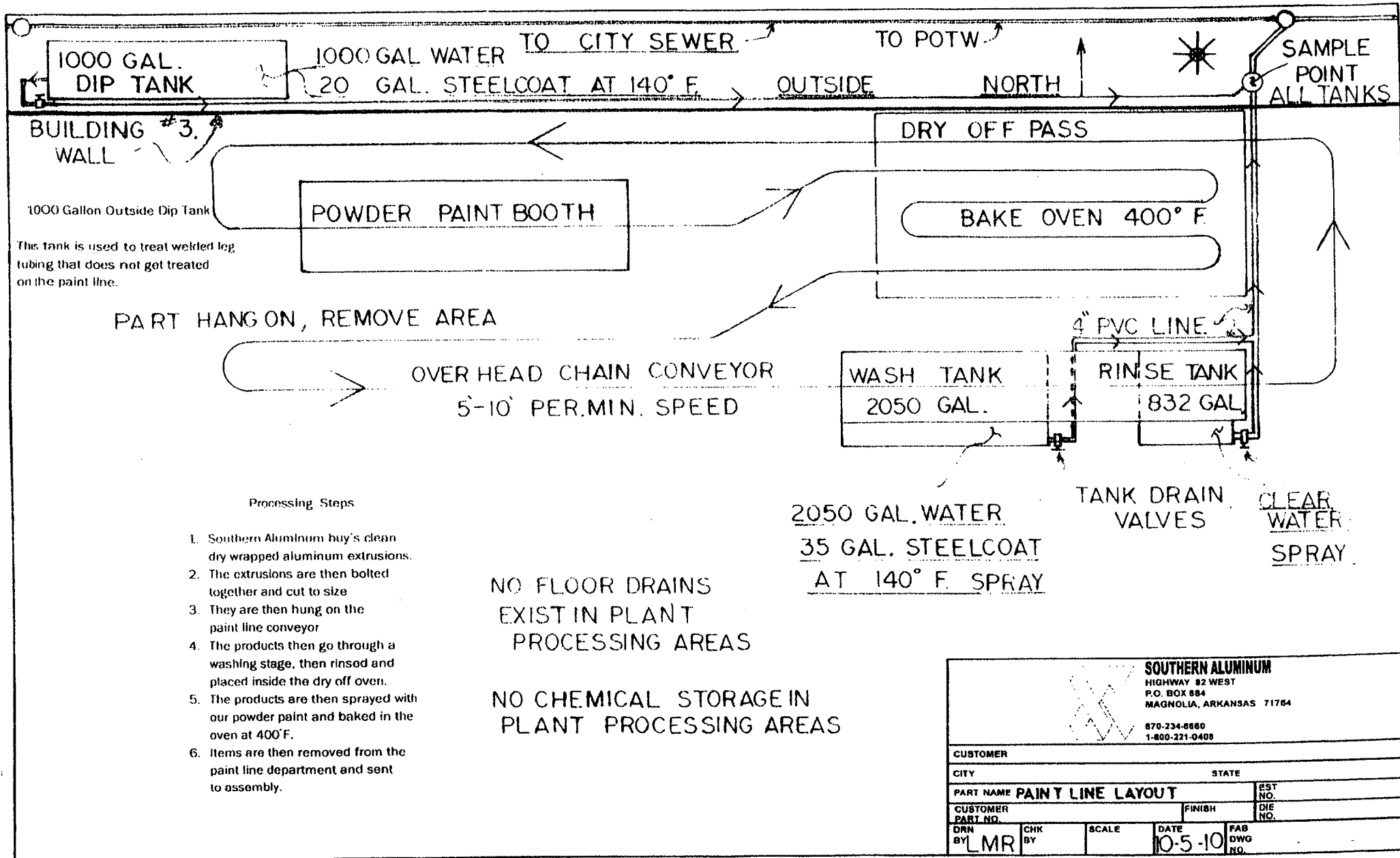
Wash Tank and Dip Tank

The wash tank (capacity: 2050 gallons) is batch discharged four (4) times per year. The dip tank (capacity: 1000 gallons) is batch discharged once per year. Typically, discharges from these tanks are completed within one (1) hour, at 16:00 hours. Discharges from each of these tanks is combined with the rinse tank (see below) prior to discharge to the municipal collection system.

Ancillary Process

Rinse Tank

The rinse tank (capacity: 832 gallons) discharges twice per week within a one (1) hour time frame, typically at 16:00 hours.



Processing Steps


1. Southern Aluminum buy's clean dry wrapped aluminum extrusions.
2. The extrusions are then bolted together and cut to size
3. They are then hung on the paint line conveyor
4. The products then go through a washing stage, then rinsed and placed inside the dry off oven.
5. The products are then sprayed with our powder paint and baked in the oven at 400° F.
6. Items are then removed from the paint line department and sent to assembly.

NO FLOOR DRAINS
EXIST IN PLANT
PROCESSING AREAS

NO CHEMICAL STORAGE IN
PLANT PROCESSING AREAS

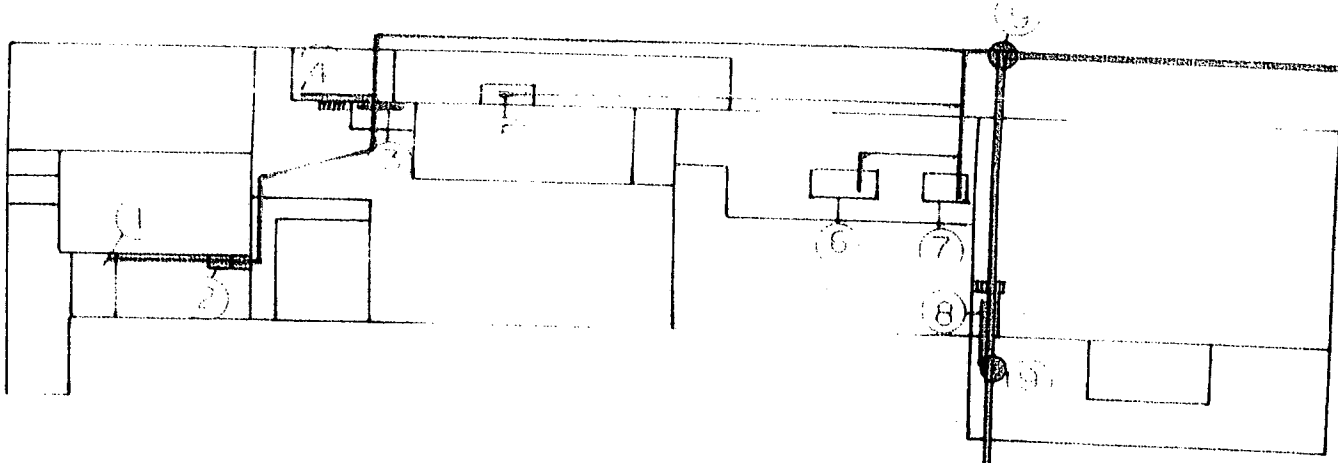
2050 GAL. WATER
35 GAL. STEELCOAT
AT 140° F. SPRAY

TANK DRAIN VALVES
CLEAR WATER
SPRAY

 SOUTHERN ALUMINUM HIGHWAY 82 WEST P.O. BOX 884 MAGNOLIA, ARKANSAS 71764 870-234-8860 1-800-221-0400					
CUSTOMER					
CITY			STATE		
PART NAME PAINT LINE LAYOUT					EST NO.
CUSTOMER PART NO.				FINISH DIE NO.	
DRN BY	CHK BY	SCALE	DATE	FAB DWG NO.	
LMR			10-5-10		

↑
NORTH

SOUTHERN ALUMINUM
5 HWY 82 WEST
MAGNOLIA AR. 71753
PHONE 1-870-234-8660



- | | |
|---|-------------------|
| 1 | KITCHEN SINK |
| 2 | OFFICE REST ROOMS |
| 3 | PLANT REST ROOMS |
| 4 | BREAK ROOM SINK |
| 5 | DIP TANK |
| 6 | WASHER PAINT LINE |
| 7 | RINSE PAINT LINE |
| 8 | PLANT REST ROOMS |
| 9 | MAN HOLE CITY |

——— 4" P.V.C. DRAIN
——— CITY MAIN



Attachment 4

MSDS

**City of Magnolia Wastewater Treatment
Industrial Wastewater
Discharge Permit Application**

**Southern Aluminum Company, Inc.
Hwy 82 Bypass
P.O. Box 884
Magnolia, AR 71754**

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA'S 29 CFR 1910.1200 AND STATE HAZARD COMMUNICATION STANDARD



3211 Wood Drive • Garland, Texas 75041 • Toll Free: 1-800-84-8871
Fax: 214-291-4300 • www.abrite.com

24 HOUR EMERGENCY PHONE NUMBER 1-800-424-9300 (CHEMTREC)

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: Sebecote 315 B
GENERAL OR GENERIC ID: Acid Mixture
DATE PREPARED: 4/28/04
LATEST REVISION DATE: 12/17/03
NFPA/HMIS HAZARD CODES
(minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
HEALTH: 22 FIRE: 00 REACTIVITY: 00 SPECIAL: H

SECTION 2: HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	IDH# LEVEL	% Wt
*Phosphoric Acid	7664-34-2	1 mg/m ³	1 mg/m ³	ND	15
*Nitric Acid	7697-37-2	2 ppm	5 mg/m ³	100 ppm	4
*Sulfuric Acid	7664-93-9	1 mg/m ³	1 mg/m ³	80 mg/m ³	15
Ammonium Bifluoride	1341-49-7	2.5 mg/m ³	2.5 mg/m ³	ND	<1
Sodium Hydroxide	1310-73-2	2 mg/m ³	2 mg/m ³	250 mg/m ³	<20
Polyethylene phenyl ether phosphate	Not listed	N/A	N/A	N/A	<5

= Reportable under SARA Title II.

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY: Negligible
SOLUBILITY IN WATER: complete
APPEARANCE AND COLOR: Clear to light yellow liquid with no odor
SPECIFIC GRAVITY: 1.16
PERCENT VOLATILE: N/A
EVAPORATION RATE: N/A
pH (1% Solution): 2.6

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: not flammable
EXTINGUISHING MEDIA: Water fog, carbon dioxide, alcohol foam, dry chemical and Halon.
SPECIAL FIRE FIGHTING PROCEDURES: Pressure demand self contained respiratory protection and protective clothing should be worn by firefighters.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Non-combustible material. Will liberate flammable hydrogen gas upon contact with many metals.

SECTION 5: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY: Reacts vigorously with alkalis producing heat. Reacts with many metals producing heat and hydrogen gas.
CONDITIONS TO AVOID: Under normal conditions product is stable.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, toxic fumes of phosphorus pentoxide.

SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY (SIGNS AND SYMPTOMS OF EXPOSURE):
ACUTE: Corrosive to eyes and skin. Concentrated solutions can destroy tissue on contact. Can cause blindness.
INGESTION: Harmful if swallowed. Can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach if swallowed.
INHALATION: Mist or dust may cause irritation to nose, throat and lungs. May cause damage to the upper respiratory tract or lungs.
CHRONIC EFFECTS: None known.
CARCINOGENS: None under OSHA, IARC or NTP.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.
EMERGENCY AND FIRST AID PROCEDURES:
EYES: Immediately flush with plenty of water for 15 minutes. See a physician.
SKIN: Wash with soap and water. Remove contaminated clothing. See a physician if irritation occurs.
INHALATION: Remove to fresh air. If breathing has stopped start artificial respiration. See a physician.
INGESTION: Call a physician immediately. **DO NOT INDUCE VOMITING. DILUTE BY DRINKING WATER (MILK IF AVAILABLE) NEVER GIVE LIQUIDS TO AN UNCONSCIOUS PERSON.**

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES:
SMALL SPILLS: Flush to treatment system with large amounts of water.
LARGE SPILLS: Sweep into suitable containers. Keep out of fish bearing waters.
WASTE DISPOSAL METHOD: Dump to waste water treatment system. Observe local, state and federal regulations. Product is hazardous waste.

SECTION 8: TRANSPORTATION AND LABELING

REGULATORY INFORMATION:
DOT HAZARD CLASS: 3
SHIPPING NAME: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid)
ID NUMBER: UN 3264
PACKING GROUP:
LABELS:
MSCA: All components included in the inventory.

SECTION 9: HANDLING AND STORAGE

HANDLING AND STORING: Keep container closed when not in use.
OTHER PRECAUTIONS: Keep out of reach of children. Store in proper chemical storage area. If water pollution occurs, notify the proper authorities.

SECTION 10: CONTROL MEASURES

RESPIRATORY PROTECTION: Use NIOSH approved respiratory equipment for dust and mist.
VENTILATION: Local exhaust to maintain air contamination below TLV limit.
GLOVES: Rubber gloves, neoprene or synthetic rubber required.
EYE PROTECTION: Safety glasses or goggles required.
OTHER PROTECTIVE EQUIPMENT: As needed to prevent prolonged or repeated skin contact. Eye wash fountain and safety shower in work area.
WORK HYGIENIC PRACTICES: Launder contaminated clothing before reuse.

THE INFORMATION WAS COMPILED FROM CURRENT, RELIABLE SOURCES AND IS BELIEVED TO BE CORRECT. AS DATA AND/OR REGULATIONS CHANGE AND CONDITIONS OF USE AND HANDLING ARE BEYOND OUR CONTROL, NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION. SELLER ASSUMES NO RESPONSIBILITY FOR INJURY TO BUYER OR TO THIRD PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND BUYER ASSUMES ALL SUCH RISKS.



MATERIAL SAFETY DATA SHEET

For Section of Powder, Latex, and Associated Powder Materials

1701 East 122nd Street
Chicago, IL 60633
(773) 646-5900
Fax: (773) 646-3743

716 South Columbus Avenue
Mount Vernon, NY 10550
(914) 699-3030
Fax: (914) 699-3035

1466 South La Cienega Blvd
Los Angeles, CA 90016
(310) 559-2335
Fax: (310) 536-6094

3333 North Interstate 35
Gainesville, TX 76240
(940) 685-8590
Fax: (940) 685-8867

email: HSE@spraylat.com

PREPARED BY: Health, Safety and Environmental Control Dept.

EMERGENCY PHONE:

1-800-424-9300

INTERNATIONAL TRANSPORTATION ACCIDENTS

1-703-527-3887

Chemtrec

Chemtrec

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: **PPLS3225Y Desert Tan Polyester Structure Low Cure**

Date Printed: 09/25/01
Revision Date: 09/25/01
Supersedes: None

Product Number:

COMPOSITION/INFORMATION ON INGREDIENTS - EXPOSURE LIMITS - SEE SECTION VIII

INGREDIENT NAME	WT %	OSHA PEL	AACGI TLV
Calcium carbonate	47.34%	5 mg/m ³	10 mg/m ³
Iron oxide black	12.41%	5 mg/m ³	10 mg/m ³
Styraglycol methacrylate (SM)	24.5%	100 mg/m ³	100 mg/m ³

Weight percentages are based on 100% total weight of solids. Components are listed in order of decreasing concentration. OSHA PEL = Permissible Exposure Limit. AACGI TLV = American Conference of Governmental Industrial Hygienists' Threshold Limit Value.

III. HAZARDS IDENTIFICATION

HEALTH	HMIT
HEALTH	2*
FLAMMABILITY	1
REACTIVITY	1

* = Slight; 1 = Moderate; 2 = Significant; 3 = Severe; 4 = Extreme; 5 = Fatal; Health Effects

Routes of Entry:

Inhalation, ingestion, skin contact, eye contact

Medical Conditions Aggravated

lung disease, liver disease, skin disease including eczema and sensitization, Liver disease

Immediate (Acute) Health Effects:

Low to moderate airborne particulate concentrations may include respiratory irritation and to aggravate pre-existing respiratory problems, even in the absence of a toxic component. High airborne particulate concentrations may irritate the eyes, nose, throat, and skin. Cause injury to the skin or mucous membranes by chemical or mechanical means or by rigorous skin-cleaning procedures needed to remove them. Dermatitis and sensitization may occur in susceptible individuals.

Inhalation:

Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. Loss of appetite. Nausea. Harmful. Can cause systemic damage, see target organs below.

skin Contact:

Can cause minor irritation, dermatitis.

Eye Contact:

Contact with product may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but may not be permanent. Injure eye tissue. Temporary vision impairment. Can cause irritation to the eyes.

PROCTER & GAMBLE

Commercial Products Group
CPG TN-6
2 Procter & Gamble Plaza
Cincinnati, Ohio 45202

MATERIAL SAFETY DATA SHEET

Issue Date: 6/99

SECTION I
Emergency Telephone Number: Procter & Gamble Operator 1-513-983-1100
Identity: IVORY BAR SOAP
Ingredients/Chemical Name: Soap from animal and vegetable fats, water and minor ingredients
Other: N.A.

SECTION II - HAZARDOUS INGREDIENTS IDENTIFICATION INFORMATION
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200
NOTE: This product is not "hazardous" within the meaning of the OSHA Hazard Communication Standard. DOT: Not regulated.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point (°F): N.A.	Specific Gravity (H ₂ O=1): 0.9
Vapor Pressure (mm Hg): N.A.	Percent Volatile by Volume (%): 21%
Vapor Density (Air=1): N.A.	Evaporation Rate (nBuOAc=1): N.A.
Solubility in Water: Moderate	Appearance and Odor: White bar with light perfume

SECTION IV - FLAMMABILITY AND REACTIVITY	
Flash Point (Method Used): N.A.	Explosive Limits: LEL: N.A. UEL: N.A.
Extinguishing Media: Use CO ₂ , water or dry chemical.	
Special Fire Fighting Procedures: None Known	
Unusual Fire Hazards: None Known	
Stability: <u>Unstable:</u> _____ Conditions to Avoid: None Known <u>Stable:</u> X	
Incompatibility (Materials to avoid): None Known	
Hazardous Decomposition/By Products: None Known	
Hazardous Polymerization: <u>May Occur:</u> _____ Conditions to Avoid: None Known <u>Will Not Occur:</u> X	

ChemPro, Inc. - Mean Green

Material Safety Data Sheet

Manufacturer [Redacted]
Preparation Date October 15, 1989
Product Name Mean Green
Product Description A detergent compound containing sodium metasilicate builders, glycols and water

Section I - Hazardous Ingredients

Ingredients	ACGIH TLV	OSHA PEL	CAS NUMBER
Glycol Ether EB	25 ppm - skin	50 ppm - skin	111-76-2

Section II - Physical Data

pH	12.5 to 12.9	Boiling Point	N/D
Vapor Pressure	N/D	Melting Point	N/A
Solubility In Water	Complete	Evap. Rate (Ether = 1)	< 1
Appearance and Oder	Clear green liquid with mild odor		

Section III - Fire and Explosion Hazard Data

Flash Point None
Flammable Limits LFL N/A UFL N/A
Extinguishing Media This material is not flammable. Use Extinguisher suitable for surrounding fire, e.g., water fog, CO2, dry chemicals foam

Special Fire Fighting Procedures

Fire Fighters should wear full protective clothing and breathing apparatus.

Unusual Fire and Explosion Hazards

None Known

Section IV - Reactivity

Stability Stable at ambient temperature and pressures
Conditions to Avoid None known
Incompatibility (Materials to Avoid) Strong oxidizing agents
Hazardous Decomposition Products Thermal - oxidative degradation products include carbon monoxide and carbon dioxide
Hazardous Polymerization Will not occur

Section V - Health Hazard Data

Mean Green is a unconcentrated product. Mean Green is much more concentrated than all-purpose spray cleaners. Mean Green is formulated to be used full strength on difficult jobs or diluted with water for normal jobs. If product is used full strength the following precautions should be taken if performing large jobs. (Sections 5, 6, 7, 8)

Route(s) of Entry Inhalation, ingestion, skin and eye contact
Eyes (Acute) Contact can cause severe irritation and, with greater exposures, burns with possible blindness.
Skin (Acute) Contact can irritate the skin. Prolonged contact can cause severe skin irritation or burns.
Inhalation Exposure to mists can cause irritation. Heavy exposure can damage the mucous membranes and the respiratory passages.



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	Wilsonart[®] 800/801	Code	16406USA
Supplier	WILSONART INTERNATIONAL INC. P.O. BOX 6110 - 2400 Wilson Place, Temple, TX 76503 Information Phone 800-433-3222 (U.S.A.) or 254-207-7000	MSDS#	16405
Synonym	Also known as: Lokweid [®] 800/801	Validation Date	08/17/1999
Trade name	Wilsonart [®] 800/801	Print Date	09/27/1999
Material Uses	Adhesives for laminate.	Responsible Name	Wilsonart International Inc.
Manufacturer	WILSONART INTERNATIONAL INC. P.O. BOX 6110, Temple, TX 76503-6110 Information Phone: 254-207-7000 or 800-433-3222	In Case of Emergenc CHEMTREC: 800-424-9300 (USA) 703-527-3887 (International)	

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Hexane isomers	N/A	40-60	TWA: 1750 mg/m ³ CEIL: 3500 mg/m ³ ACGIH (TLV) (United States) TWA: 500 ppm STEL: 1000 ppm ACGIH (TLV) (United States)
Acetone	67-64-1	15-40	TWA: 750 ppm ACGIH (TLV) (United States) STEL: 1000 ppm ACGIH (TLV) (United States)
Toluene	108-88-3	5-15	TWA: 100 ppm STEL: 150 ppm OSHA (PEL) (United States)
N-hexane	110-54-3	1-5	TWA: 50 ppm ACGIH (TLV) (United States) TWA: 175 mg/m ³ ACGIH (TLV) (United States) TWA: 50 ppm ACGIH (TLV) (United States)

Section 3. Hazards Identification

Physical State and Appearance	Liquid
Emergency Overview	DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR, VAPOR MAY CAUSE FLASH FIRE. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. Use only with adequate ventilation
Routes of Entry	Absorbed through skin. Skin contact. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	Eyes: This product is an eye irritant. Skin: Irritating to skin. Inhalation: Inhalation of the vapors may cause dizziness, nausea, or anaesthetic effects. The product is a severe irritant for lungs and respiratory tract. Severe over-exposure can result in death. Ingestion: Ingestion may cause severe gastric disturbances.

Continued on Next Page

Material Safety Data Sheet

FROM VENDOR 10/10/88

I. General Information

Chemical Name & Synonyms	NOT APPLICABLE	Trade Name & Synonyms	KOOL MIST FORMULA 77
Chemical Family	NOT APPLICABLE	Formula	COMPLEX MIXTURE
Proper DOT Shipping Name	NOT APPLICABLE	DOT Hazard Classification	NONE
Manufacturer	KOOL MIST CORP. DIV. OF ALL-POWER MFG. CO.	Manufacturer's Phone Number	(213) 802-2640
Manufacturer's Address	13141 MOLETTE ST. SANTA FE SPRINGS, CALIF. 90670	Chemtrec Phone Number	N/A

II. Ingredients

Principal Hazardous Components	Percent	Threshold Limit Value (units)
CONTAINS NO INGREDIENTS KNOWN TO BE HAZARDOUS AS DEFINED IN OSHA 29 CFR 1910.1000 (SUBPART Z), OSHA CFR 1910.1200. THE NATIONAL FIRE PROTECTION ASSOCIATION, AND CALIFORNIA GISO 5194		

III. Physical Data

Boiling Point (°F)	212°	Specific Gravity (H ₂ O = 1)	1.02
Vapor Pressure (mm Hg.)	22	Percent Volatile By Volume (%)	NONE
Vapor Density (Air = 1)	.64	Evaporation Rate (_____ = 1)	LIKE WATER
Solubility in Water	INFINITE	pH	8.5
Appearance & Odor	GREEN COLOR--NO DISTINCTIVE ODOR		

IV. Fire & Explosion Hazard Data

Flash Point (Test Method)	NONE-SELF EXTINGUISHING	Auto Ignition Temperature	N/A
Flammable Limits	N/A	LEL	UEL
Extinguishing Media	NO FIRE HAZARD		
Special Fire Fighting Procedures	N/A		
Unusual Fire & Explosion Hazards	NONE		



Material Safety Data Sheet

MSDS Number: 5120 - 17

24 Hour Emergency Assistance: CHEMTREC - Domestic: (800) 424-9300
24 Hour Emergency Assistance: CHEMTREC - International: (703) 527-3687
General Assistance Number: (713) 241-4819

SECTION 1: MATERIAL IDENTIFICATION

MATERIAL IDENTITY: Isopropyl Alcohol, 99%

COMPANY ADDRESS: Shell Chemical Company, P.O. Box 4320, Houston, TX 77210-4320, USA

SECTION 2: COMPOSITION

COMPONENTS	CAS#	CONCENTRATION
Isopropyl Alcohol	67-63-0	> 99.7 %weight

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance & Odor: Colorless, mobile liquid. Mild odor.

Health Hazards: Can cause severe lung damage and may be fatal if swallowed. Causes eye irritation. May be harmful if swallowed. May cause CNS depression.

Physical Hazards: **FLAMMABLE.** Vapors are heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Health Effects

Inhalation:
Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Vapors expected to be slightly irritating.

Eye Contact:
Irritating to the eyes causing a burning sensation, redness, swelling and/or blurred vision.

Skin Contact:
May be slightly irritating to the skin.

Ingestion:
Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause CNS depression, low blood pressure and rapid heart beat. May be harmful if swallowed. Liquid can directly enter the lungs (aspiration) when swallowed or vomited. Serious lung damage and possibly fatal chemical pneumonia (chemical pneumonitis) can develop if this occurs.

SECTION 4: FIRST AID MEASURES

Inhalation:
Move victim to fresh air. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Eye:

Attachment 5

Environmental Permits Issued to Southern Aluminum

City of Magnolia Wastewater Treatment
Industrial Wastewater
Discharge Permit Application

Southern Aluminum Company, Inc.
Hwy 82 Bypass
P.O. Box 884
Magnolia, AR 71754

ADEQ

ARKANSAS
Department of Environmental Quality

October 28, 2010

Ms. Colleen Tuggle
Southern Aluminum Mfg.
P.O. Box 884
Magnolia, AR 71753

RE: Notice for No Exposure Exclusion under the Industrial Stormwater General Permit, ARR000000 (Permit Tracking No. ARR000628 - AFIN 14-00727)

Dear Ms. Tuggle:

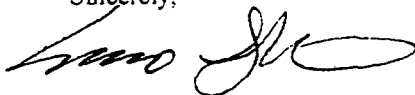
The certification for "No Exposure Exclusion" under the Industrial Stormwater General Permit ARR000000 for Southern Aluminum, located in Magnolia, AR, has been received and approved by the Department based on the information the facility provided. For tracking purposes, the facility has been assigned permit tracking number, ARR000628. Please use this number in all future correspondence related to this facility.

Effective Date: 10/22/2010
Expiration Date: 06/30/2014

Please note that a facility site inspection may be conducted at a later date to verify the conditions of the "No Exposure Exclusion". If all of the conditions of "No Exposure" are not verified during the site inspection, the "No Exposure Exclusion" will be removed and stormwater discharges shall be in accordance with the terms and conditions of the ARR000000.

If you have any questions concerning this matter or need additional information, please feel free to contact the General Permits Section at (501) 682-0623.

Sincerely,



Mo Shafii
Assistant Chief
Water Division

MS: jh

cc: Electronic Filing (ARR000628 w/ attachments)
Eric Fleming, Branch Manager, Field Services Branch
Cindy Garner, Branch Manager, Enforcement Branch
Jim Purvis, Permit Fee Coordinator
David Ramsey, ICIS Program Coordinator

From: Wastewater System Magnolia (mwws@sbcglobal.net)
To: lryan@southernaluminum.com; ctuggle@southernaluminum.com;
Date: Wed, October 3, 2012 11:26:12 AM
Cc: bkfinch@sbcglobal.net; GILLIAM@adeq.state.ar.us;
Subject: Discharge Dates

Dear Mr. Ryan,

Please address the following request:

1. At this time I am requesting that you submit the dates of all discharges, and all analytical data that has been compiled for this year (2012) to this office by October 12, 2012.
2. Before commencing any batch discharges you are to notify my office five (5) working days prior to discharge.
3. The City of Magnolia Wastewater System will not accept any discharges containing a pH less than 5 s.u. or greater than 10 s.u.

If you have any questions, feel free in contacting me at 870-234-2955 or 870-904-1694.

Thank you,

Russell W. Thomas, Superintendent/Manager
City of Magnolia Wastewater System.

From: Bernie K. Finch (bkfinch@sbcglobal.net)
To: mwws@sbcglobal.net;
Date: Fri, October 5, 2012 9:47:39 AM
Cc: ctuggle@southernaluminum.com; bkfinch@sbcglobal.net; jfarrar@southernaluminum.com;
Subject: Southern Aluminum Company

Mr. Thomas,

I am in receipt of your e-mail of October 3, 2012.

I am assisting Southern Aluminum in complying with the requests you made in your e-mail.

This e-mail pertains to Item 2. Notification of Batch Discharges

Southern Aluminum has three regulated processes (40 CFR 433.17):

Core process are associated with the Wash and Dip tanks. The single ancillary process is associated with the Rinse Tank.

Rinse Tank

The Rinse Tank has shown regular, complete compliance with 40 CFR 433.17 for metals, cyanide, and the limiting range for pH contained in the municipal ordinance relating to pH. Regulated metals and cyanide have never been detected and pH has consistently been shown to be in the 6.0 - 7.0 s.u. range.

Repeated recent analyses requested by Allen Gilliam, Pretreatment Coordinator, ADEQ justified overflows from the Rinse Tank to not require sampling/reporting to ADEQ. Overflows from the Rinse tank typically occur on Wednesdays and Fridays.

Batch discharges from the core processes (Wash Tank and Dip Tank) when mixed with Rinse Tank water do require sampling and reporting as required by federal regulations.

On behalf of Southern Aluminum, I respectfully request that the facility not be required to notify your office of discharges comprised solely from the Rinse Tank due to the impracticality of notifying your office five days in advance of a discharge that is so regular and consistent and has been shown to be a regulatory compliant wastewater.

Wash Tank

As a core process regulated in CFR Southern Aluminum will notify your office five (5) days prior to a batch discharge.

Dip Tank

Also a core process, the Dip Tank is regulated by federal, state, and municipal regulations/ordinances. Please be aware that this tank, although infrequently, "turns over" much as a pond might. This has not happened since this tank was covered at the plant approximately one year ago, therefore it may not be a future issue. However, if this does occur it is imperative that the plant be able to discharge the wastewater contained in the Dip Tank and replace the contents with new, virgin material or production much cease. Otherwise, the "turn over" in the tank will cause suspended particles to contaminate the finished product, making the product impossible to market. Typically, the plant can predict when water from the Dip Tank needs to be batch discharged, however, I want you to be aware of this particular situation and get your thoughts. The plant would certainly notify your office as soon as possible in the unlikely event this situation occurs and will comply with your request to notify your office 5 days prior to discharge when the need to discharge is caused by regular, predictable factors.

I am working on the remaining requests you made of Southern Aluminum in your e-mail and I have every intention of meeting your October 12, 2012 deadline.

Thank you in advance for your assistance.

Sincerely,

<http://us.mg204.mail.yahoo.com/dc/launch?partner=sbc&gx=1&.rand=enl5ndi52n1sv>

10/5/2012

Bernie K. Finch

Finch Environmental, PLC
9 Heritage Park Circle
North Little Rock, AR 72116
Telephone/Facsimile: 501.771.6940
bkfinch@sbcglobal.net
www.finchenvironmental.com

ec Colleen Tuggle, Southern Aluminum
Jeff Farrar, Southern Aluminum
File

CONFIDENTIALITY NOTICE: The information and all attachments contained in this electronic communication are confidential, proprietary and may constitute trade secrets under applicable law. They are intended solely for use by the individual or entity to which they are correctly addressed and were intended to be sent. Any review, use, dissemination, distribution or copying of this communication by anyone other than its intended recipient is strictly prohibited and may violate applicable law. Finch Environmental, PLC accepts no liability for the content of this email, or for the consequences of any actions taken on the basis of the information provided herein.

Rec. 10/15/2012

Finch Environmental, PLC

9 Heritage Park Circle
North Little Rock, Arkansas 72116-8528

*Municipal and Industrial
NPDES Storm Water
Pollution Prevention Plans
Control Plans Environmental Permitting
Reporting Hazardous Waste
Pretreatment*

CERTIFIED MAIL : RETURN RECEIPT REQUESTED

10/9/2012

Mr. Russell Thomas
Superintendent/Manager
City of Magnolia Wastewater System
P.O. Box 666
Magnolia, AR 71754

Re: Southern Aluminum Manufacturing Company, Inc. Industrial Wastewater Discharge Information, Calendar Year 2012

Dear Mr. Thomas,

Please find attached analytical results of samples taken during three (3) separate days during 2012 that a discharge occurred from Southern Aluminum core and ancillary processes as defined at 40 CFR 433.17. This submittal is in response to your e-mail of October 3, 2012. Discharges were made and samples taken on 01/23/2012, 07/06/2012, and 09/17/2012. These results have been submitted to the Arkansas Department of Environmental Quality (ADEQ), in support of Semi-Annual Reports or Periodic Reports submitted to ADEQ by Southern Aluminum.

Overflows from the rinse tank (ancillary process) occur each Wednesday and Friday. This source has been tested repeatedly (see Attachment 2 - Discharge Date: 07/06/2012). You will note that all tests for regulated metals and cyanide reflect extremely low concentrations, with the exception of one (1) result for cadmium, which is believed to be a laboratory error since cadmium is not used or present at the plant. Concentrations for metals and cyanide are well below the pretreatment standard for new sources (PSNS) shown at 40 CFR 433.17. The results of this series of analyses prompted ADEQ to authorize Southern Aluminum to regularly discharge from this source, without testing or reporting. When the rinse tank discharges in combination with either of the other (core) processes, analysis and reporting is required.

To quantify discharges from regulated processes at the plant, please refer to the table below.

Tank	Process	Capacity (gallons)
Rinse	Ancillary	832
Wash	Core	2050
Dip	Core	1000

Please see three (3) attachments to this letter.

Please accept this information and contact me with questions.

Thank you.

Sincerely,

Bernie K. Finch

Bernie K. Finch
Finch Environmental, PLC

Attachments

Cc (w/Attachments) Colleen Tuggle, Human Resources Director, Southern Aluminum

Attachment 1

Discharge Date: 01/23/2012

Sources: Wash Tank (core process), Dip Tank (core process) , Rinse Tank (ancillary process)

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1201010413
 Customer Name : SOUTHERN ALUMINUM CO., INC.
 Customer Number : 2754
 Report Date : 01/27/12

Sample Date : 01/23/12
 Sample Time : 1500
 Sample Type : GRAB WATER
 Sample From : PRETREAT WATER

Collected By: CLIENT
 Delivery By : UPS
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/27	0630	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	1.55	91.1 *
01/23	1500	LR	pH	3.1 S.U.			SM 18 4500 H+B		
01/26	1200	AJR	Chromium	5.91 ug/L			EPA 200.8	1.39	96.6
01/26	1200	AJR	Nickel	191.19 ug/L			EPA 200.8	2.26	98.8
01/26	1200	AJR	Copper	19.99 ug/L			EPA 200.8	0.92	98.7
01/26	1200	AJR	Zinc	2433.41 ug/L			EPA 200.8	1.70	96.2
01/26	1200	AJR	Silver	< 1.00 ug/L			EPA 200.8	3.35	90.1
01/26	1200	AJR	Cadmium	8.71 ug/L			EPA 200.8	1.75	87.9
01/26	1200	AJR	Lead	< 10.00 ug/L			EPA 200.8	2.36	102.2

* QA data shown is from a different sample or standard on the same date.

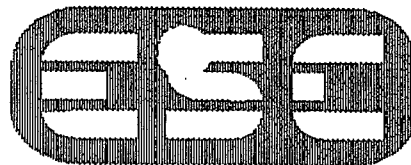
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____



Environmental Services Co., Inc.

Environmental Services Company, Inc.
 Corporate Office
 13715 West Markham P.O. Box 55146
 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.esclabs.com



Environmental Services Cor. y, Inc.
 Northwest Branch
 1107 Century
 Springdale, AR 72764

Phone: 501-221-2565 Fax: 501-221-1341

CHAIN OF CUSTODY

Phone 479-750-1170 Fax: 479-750-1172

Client Information				Project Information						Requested Parameters										
Company Name:		Southern Aluminum Co., Inc.		Permit/Project #:						Cyanide(9)	pH(23.L)	Metals (See Comments)								
Address:		#5 Hwy 82 West		Purchase Order #:																
		Magnolia, AR 71753		Work Order #:																
Telephone:		800-221-0408		Sampler Name(s):																
Fax:		870-234-4665		and Signature(s):																
Contact:		Ms. Colleen Tuggle																		
ESC Client Number:		2754																		
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
pretreat water (ph 3.1)	1201010413	1-23-12	3:00pm	Grab	Water	Plastic	1 Liter	NaOH+Ascorbic	1	X										
				Grab	Water	Plastic	1 Liter	none	1		X									
				Grab	Water	Glass	1 Liter	HNO3*	1			X								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?									
Lean Tuggle		1-23-11	3:00pm	Cindy Strauss		1-23-12	3:00pm	Turnaround:		Regular	Special									
Cindy Strauss		1-23-12	3:00pm	Richard Hall		1-24-12	11:33	Were samples properly preserved:		Yes	No									
All samples cooled to ≤ 6 deg C with ice.				Flow Data		Field Test	Time	Analyst	Result	Result	Units									
Comments: Cd(48.PS), Cr(24.PS), Cu(29.PS), Pb(62.PS), Ni(26.PS), Ag(47.PS), Zn(30.PS)				Analyst:		pH:														
				Time:																
				Reading:																
				Units:																
* Per 40 CFR 136.3 Table II Note 19, samples preserved in laboratory.				Chlorinated? Y N		Fecal Start:			This Document is Page ___ of ___											

Attachment 2

Discharge Date: 07/06/2012

Sources: Wash Tank (core process), Dip Tank (core process) , Rinse Tank* (ancillary process)

*** Four (4) additional samples taken and analyzed from Rinse Tank**

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1207010212	Sample Date : 07/06/12	Collected By: CLIENT
Customer Name : SOUTHERN ALUMINUM CO., INC.	Sample Time : 1515	Delivery By : UPS
Customer Number : 2754	Sample Type : GRAB WATER	Work Order :
Report Date : 07/23/12	Sample From : WASH/RINSE/DIP #1	Purchase Order :

<u>Laboratory Analysis</u>						<u>Quality Assurance</u>				
<u>Analysis</u>	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recover</u>
	07/18	0730	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	0.00	99.5
	07/13	1120	AJR	Chromium	15.65 ug/L			EPA 200.8	4.38	95.6
	07/13	1120	AJR	Nickel	38.03 ug/L			EPA 200.8	5.61	99.0
	07/13	1120	AJR	Copper	50.68 ug/L			EPA 200.8	6.06	98.0
	07/13	1120	AJR	Zinc	2073.00 ug/L			EPA 200.8	7.10	95.0
	07/13	1120	AJR	Silver	19.20 ug/L			EPA 200.8	6.98	86.7
	07/13	1120	AJR	Cadmium	< 0.10 ug/L			EPA 200.8	2.30	91.0
	07/13	1120	AJR	Lead	1.70 ug/L			EPA 200.8	6.80	100.3

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____

Mark Payne
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1207010213

Customer Name : SOUTHERN ALUMINUM CO., INC.

Customer Number : 2754

Report Date : 07/23/12

Sample Date : 07/06/12

Sample Time : 1525

Sample Type : GRAB WATER

Sample From : WASH/RINSE/DIP #2

Collected By: CLIENT

Delivery By : UPS

Work Order :

Purchase Order :

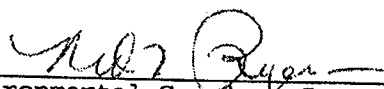
Laboratory Analysis

Analysis				Laboratory Analysis			Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recover
07/18	0730	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	0.00	99.5
07/13	1120	AJR	Chromium	16.17 ug/L			EPA 200.8	4.38	95.6
07/13	1120	AJR	Nickel	36.82 ug/L			EPA 200.8	5.61	99.0
07/13	1120	AJR	Copper	46.05 ug/L			EPA 200.8	6.06	98.0
07/13	1120	AJR	Zinc	2080.00 ug/L			EPA 200.8	7.10	95.0
07/13	1120	AJR	Silver	< 0.50 ug/L			EPA 200.8	6.98	86.7
07/13	1120	AJR	Cadmium	< 0.10 ug/L			EPA 200.8	2.30	91.0
07/13	1120	AJR	Lead	1.20 ug/L			EPA 200.8	6.80	100.3

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature


 Environmental Services Co., Inc.

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1207010214
 Customer Name : SOUTHERN ALUMINUM CO., INC.
 Customer Number : 2754
 Report Date : 07/23/12

Sample Date : 07/06/12
 Sample Time : 1505
 Sample Type : GRAB WATER
 Sample From : WASH/RINSE/DIP #3

Collected By: CLIENT
 Delivery By : UPS
 Work Order :
 Purchase Order :

Laboratory Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recover
07/18	0730	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	0.00	99.5
07/13	1120	AJR	Chromium	17.77 ug/L			EPA 200.8	4.38	95.6
07/13	1120	AJR	Nickel	35.19 ug/L			EPA 200.8	5.61	99.0
07/13	1120	AJR	Copper	47.52 ug/L			EPA 200.8	6.06	98.0
07/13	1120	AJR	Zinc	2071.00 ug/L			EPA 200.8	7.10	95.0
07/13	1120	AJR	Silver	< 0.50 ug/L			EPA 200.8	6.98	86.7
07/13	1120	AJR	Cadmium	< 0.10 ug/L			EPA 200.8	2.30	91.0
07/13	1120	AJR	Lead	1.00 ug/L			EPA 200.8	6.80	100.3

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature


 Environmental Services Co., Inc.

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1207010215

Customer Name : SOUTHERN ALUMINUM CO., INC.

Customer Number : 2754

Report Date : 07/23/12

Sample Date : 07/06/12

Sample Time : UNKNOWN

Sample Type : GRAB WATER

Sample From : WASH/RINSE/DIP #4

Collected By: CLIENT

Delivery By : UPS


Work Order :

Purchase Order :

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recover
07/18	0730	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	0.00	99.5 *
07/13	1120	AJR	Chromium	15.62 ug/L			EPA 200.8	4.38	95.6 *
07/13	1120	AJR	Nickel	34.42 ug/L			EPA 200.8	5.61	99.0 *
07/13	1120	AJR	Copper	47.87 ug/L			EPA 200.8	6.06	98.0 *
07/13	1120	AJR	Zinc	2070.00 ug/L			EPA 200.8	7.10	95.0 *
07/13	1120	AJR	Silver	< 0.50 ug/L			EPA 200.8	6.98	86.7 *
07/13	1120	AJR	Cadmium	< 0.10 ug/L			EPA 200.8	2.30	91.0 *
07/13	1120	AJR	Lead	1.50 ug/L			EPA 200.8	6.80	100.3 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
 Environmental Services Co., Inc.

Environmental Services Company, Inc.
 Corporate Office
 13715 West Markham P.O. Box 55146
 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.esclabs.com



Environmental Services Company, Inc.
 Northwest Branch
 1107 Century
 Springdale, AR 72764

Phone: 501-221-2565 Fax: 501-221-1341

CHAIN OF CUSTODY

Phone 479-750-1170 Fax: 479-750-1172

Client Information				Project Information						Requested Parameters										
Company Name: Southern Aluminum Co., Inc.				Permit/Project #:						Cyanide(9)	pH(23)	Metals (See Comments)								
Address: #5 Hwy 82 West				Purchase Order #:																
Magnolia, AR 71753				Work Order #:																
Telephone: 800-221-0408				Sampler Name(s):																
Fax: 870-234-4665				and Signature(s):																
Contact: Ms. Colleen Tuggle																				
ESC Client Number: 2754																				
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Wash #1	1207010212	7-6-12	3:15pm	Grab	Water	Plastic	1 Liter	NaOH+Ascorbic	1	X										
Rinse #2	1207010213	7-6-12	3:25pm	Grab	Water	Plastic	1 Liter	none	1	X										
Dip #3	1207010214	7-6-12	3:05pm	Grab	Water	Glass	1 Liter	HNO3 *	1		X									
#4	1207010215																			
combined																				
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?									
<i>Leo Ragan</i>		7-6-12	3:30	<i>Cindy Strauss</i>		7-9-12	1530	Turnaround:		Regular	Special									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No									
<i>Cindy Strauss</i>		7-9-12	1630	<i>Ned Rye</i>		7-9-12	1630	Result		Result	Units									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Flow Data		Field Test	Time	Analyst								
<i>Ned Rye</i>				<i>Ned Rye</i>				Time		Analyst										
All samples cooled to ≤ 5 deg C with ice.				Flow Data		Field Test		Time		Analyst		Result	Result	Units						
Comments: Cd(48.PS), Cr(24.PS), Cu(29.PS), Pb(82.PS), Ni(28.PS), Ag(47.PS), Zn(30.PS)				Analyst:		pH:														
				Time:																
				Reading:																
				Units:																
* Per 40 CFR 136.3 Table II Note 19, samples preserved in laboratory.				Chlorinated? Y N		Fecal Start:						This Document is Page ___ of ___								

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1207010202
 Customer Name : SOUTHERN ALUMINUM CO., INC.
 Customer Number : 2754
 Report Date : 07/23/12

Sample Date : 07/06/12
 Sample Time : 1530
 Sample Type : GRAB WATER
 Sample From : RINSE TANK #1

Collected By: CLIENT
 Delivery By : UPS
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/18	0730	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	0.00	99.5 *
07/13	1120	AJR	Chromium	17.16 ug/L			EPA 200.8	4.38	95.6 *
07/13	1120	AJR	Nickel	11.60 ug/L			EPA 200.8	5.61	99.0 *
07/13	1120	AJR	Copper	24.46 ug/L			EPA 200.8	6.06	98.0 *
07/13	1120	AJR	Zinc	25.20 ug/L			EPA 200.8	7.10	95.0 *
07/13	1120	AJR	Silver	< 0.50 ug/L			EPA 200.8	6.98	86.7 *
07/13	1120	AJR	Cadmium	76.60 ug/L			EPA 200.8	2.30	91.0 *
07/13	1120	AJR	Lead	0.74 ug/L			EPA 200.8	6.80	100.3 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____

Environmental Services Co., Inc.

Environmental Services Company, Inc.

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 13715 West Markham
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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1207010209
 Customer Name : SOUTHERN ALUMINUM CO., INC.
 Customer Number : 2754
 Report Date : 07/23/12

Sample Date : 07/06/12
 Sample Time : 1530
 Sample Type : GRAB WATER
 Sample From : RINSE TANK #1

Collected By: CLIENT
 Delivery By : UPS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
07/18	0730	NTR	Cyanide Total (as CN)	< 0.0100 mg/L		SM 18th 4500-CN E	0.00	99.5
07/13	1120	AJR	Chromium	1.55 ug/L		EPA 200.8	4.38	95.6
07/13	1120	AJR	Nickel	1.80 ug/L		EPA 200.8	5.61	99.0
07/13	1120	AJR	Copper	19.30 ug/L		EPA 200.8	6.06	98.0
07/13	1120	AJR	Zinc	< 1.00 ug/L		EPA 200.8	7.10	95.0
07/13	1120	AJR	Silver	< 0.50 ug/L		EPA 200.8	6.98	86.7
07/13	1120	AJR	Cadmium	< 0.10 ug/L		EPA 200.8	2.30	91.0
07/13	1120	AJR	Lead	< 0.50 ug/L		EPA 200.8	6.80	100.3

* QA data shown is from a different sample or standard on the same date.

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Signature _____

Neil Rye
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1207010210
 Customer Name : SOUTHERN ALUMINUM CO., INC.
 Customer Number : 2754
 Report Date : 07/23/12

Sample Date : 07/06/12
 Sample Time : 1530
 Sample Type : GRAB WATER
 Sample From : RINSE TANK #3

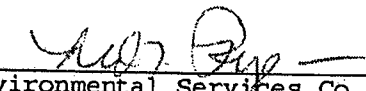
Collected By: CLIENT
 Delivery By : UPS
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recover
07/18	0730	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	0.00	99.5
07/13	1120	AJR	Chromium	1.85 ug/L			EPA 200.8	4.38	95.6
07/13	1120	AJR	Nickel	2.19 ug/L			EPA 200.8	5.61	99.0
07/13	1120	AJR	Copper	23.40 ug/L			EPA 200.8	6.06	98.0
07/13	1120	AJR	Zinc	3.13 ug/L			EPA 200.8	7.10	95.0
07/13	1120	AJR	Silver	< 0.50 ug/L			EPA 200.8	6.98	86.7
07/13	1120	AJR	Cadmium	< 0.10 ug/L			EPA 200.8	2.30	91.0
07/13	1120	AJR	Lead	< 0.50 ug/L			EPA 200.8	6.80	100.3

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1207010211
 Customer Name : SOUTHERN ALUMINUM CO., INC.
 Customer Number : 2754
 Report Date : 07/23/12

Sample Date : 07/06/12
 Sample Time : 1530
 Sample Type : GRAB WATER
 Sample From : RINSE TANK #4

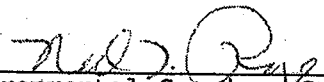
Collected By: CLIENT
 Delivery By : UPS
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/18	0730	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	0.00	99.5 *
07/13	1120	AJR	Chromium	2.09 ug/L			EPA 200.8	4.38	95.6 *
07/13	1120	AJR	Nickel	2.76 ug/L			EPA 200.8	5.61	99.0 *
07/13	1120	AJR	Copper	22.18 ug/L			EPA 200.8	6.06	98.0 *
07/13	1120	AJR	Zinc	< 1.00 ug/L			EPA 200.8	7.10	95.0 *
07/13	1120	AJR	Silver	< 0.50 ug/L			EPA 200.8	6.98	86.7 *
07/13	1120	AJR	Cadmium	< 0.10 ug/L			EPA 200.8	2.30	91.0 *
07/13	1120	AJR	Lead	< 0.50 ug/L			EPA 200.8	6.80	100.3 *

* QA data shown is from a different sample or standard on the same date.

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 Northwest Branch
 1107 Century
 Springdale, AR 72764

Phone: 501-221-2565 Fax: 501-221-1341

CHAIN OF CUSTODY

Phone 479-750-1170 Fax: 479-750-1172

Client Information				Project Information							Requested Parameters												
Company Name: Southern Aluminum Co., Inc.				Permit/Project #:							Cyanide(9)	pH(23)	Metals (See Comments)										
Address: #5 Hwy 82 West				Purchase Order #:																			
Magnolia, AR 71753				Work Order #:																			
Telephone: 800-221-0408				Sampler Name(s):																			
Fax: 870-234-4665				and Signature(s):																			
Contact: Ms. Colleen Tuggle																							
ESC Client Number: 2754																							
Sample Identification		Sample Collection				Sample Containers																	
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#														
4 - anal #1	1207010202	7-6-12	3:30pm	Grab	Water	Plastic	1 Liter	NaOH+Ascorbic	1	X													
Rinse Tank				Grab	Water	Plastic	1 Liter	none	1	X													
+ 2	1207010209			Grab	Water	Glass	1 Liter	HNO3 *	1		X												
# 3	1207010210																						
# 4	1207010211																						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:															
<i>[Signature]</i>		7-6-12	3:30pm	<i>[Signature]</i> Cindy Strauss		7-9-12	1015	Used? <input type="checkbox"/> Intact? <input type="checkbox"/>															
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:															
<i>[Signature]</i> Cindy Strauss		7-9-12	1200	<i>[Signature]</i>				Regular <input type="checkbox"/> Special <input type="checkbox"/>															
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:															
<i>[Signature]</i>				<i>[Signature]</i> Ned Feyer		7-9-12	1200	Yes <input type="checkbox"/> No <input type="checkbox"/>															
All samples cooled to ≤ 6 deg C with ice.				Flow Data	Field Test	Time	Analyst	Result	Result	Units													
Comments: Cd(48.PS), Cr(24.PS), Cu(29.PS), Pb(82.PS), Ni(28.PS), Ag(47.PS), Zn(30.PS)				Analyst:	pH:																		
				Time:																			
				Reading:																			
				Units:																			
* Per 40 CFR 136.3 Table II Note 19, samples preserved in laboratory.				Chlorinated? Y N	Fecal Start:																		
										This Document is Page ___ of ___													

C/S

Attachment 3

Discharge Date: 09/17/2012

Sources: Wash Tank (core process), Rinse Tank* (ancillary process)

Environmental Services Company, Inc.

Corporate Office
13715 West Markham
Little Rock, AR 72211
Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1209010316
Customer Name : SOUTHERN ALUMINUM CO., INC.
Customer Number : 2754
Report Date : 09/27/12

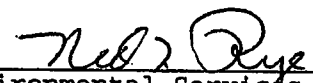
Sample Date : 09/17/12
Sample Time : 1600
Sample Type : GRAB WATER
Sample From :

Collected By: LEON RYAN
Delivery By : UPS
Work Order :
Purchase Order :

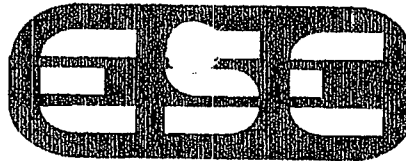
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recover
09/25	1230	NTR	Cyanide Total (as CN)	< 0.0100 mg/L			SM 18th 4500-CN E	1.22	97.6
09/17	1600	LR	pH	3.4 S.U.			SM 18 4500 H+B		
09/20	1834	NTR	Chromium	10.03 ug/L			EPA 200.8	5.95	88.4
09/20	1834	NTR	Nickel	18.15 ug/L			EPA 200.8	14.89	91.9
09/20	1834	NTR	Copper	14.16 ug/L			EPA 200.8	14.24	91.4
09/20	1834	NTR	Zinc	< 1.00 ug/L			EPA 200.8	17.58	89.9
09/20	1834	NTR	Silver	< 0.50 ug/L			EPA 200.8	3.09	70.1
09/20	1834	NTR	Cadmium	3.45 ug/L			EPA 200.8	2.16	91.2
09/17	1600	LR	Temperature (°F)	83.0 °F			SM 18th 2550B		
09/20	1834	NTR	Lead	< 0.50 ug/L			EPA 200.8	5.97	109.6

* QA data shown is from a different sample or standard on the same date.

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Phone: 501-221-2565 Fax: 501-221-1341

CHAIN OF CUSTODY

Phone 479-750-1170 Fax: 479-750-1172

Client Information				Project Information						Requested Parameters										
Company Name: Southern Aluminum Co., Inc.				Permit/Project #:						Cyanide(9)	pH(23.)	Metals (See Comments)								
Address: #5 Hwy 82 West				Purchase Order #:																
Magnolia, AR 71753				Work Order #:																
Telephone: 800-221-0408				Sampler Name(s): <u>Leon Ryan</u>																
Fax: 870-234-4665				and Signature(s): <u>Leon Ryan</u>																
Contact: Ms. Colleen Tuggle				ESC Client Number: 2754																
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
	1209010316	9-17-12	4:00pm	Grab	Water	Plastic	1 Liter	NaOH+Ascorbic	1	X										
				Grab	Water	Plastic	1 Liter	none	1		X									
				Grab	Water	Glass	1 Liter	HNO3 *	1			X								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?									
<u>Leon Ryan</u>		9-17-12	4:00	<u>Cindy Strauss</u>		9-18-12	1025	Turnaround:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Regular		<input checked="" type="checkbox"/>	Special									
<u>Cindy Strauss</u>		9-18-12	1140	<u>Richard Hall</u>		9-18-12	1140	Were samples properly preserved:		<input checked="" type="checkbox"/>	<input type="checkbox"/>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Yes		<input checked="" type="checkbox"/>	No									
<u>Richard Hall</u>				<u>Richard Hall</u>		9-18-12	1140	No		<input type="checkbox"/>	<input type="checkbox"/>									
All samples cooled to ≤ 6 deg C with ice.										Flow Data	Field Test	Time	Analyst	Result	Result	Units				
Comments: Cd(48.PS), Cr(24.PS), Cu(29.PS), Pb(82.PS), Ni(28.PS), Ag(47.PS), Zn(30.PS)										Analyst:	pH:	4:00pm	Leon	3.4						
										Time:										
										Reading:										
										Units:										
* Per 40 CFR 136.3 Table II Note 19, samples preserved in laboratory.										Chlorinated? Y N	Fecal Start:									

CPD

Directions

T.M. 82°F

**Permit
Application
Everette
Plating**

From: bobbie@jevacmachine.com (bobbie@jevacmachine.com)
To: mwws@sbcglobal.net;
Date: Fri, September 14, 2012 11:02:22 AM
Cc:
Subject: Everette Plating, Inc

Mr. Russell Thomas

This is to advise you that we are planning on moving our Everette Plating, Inc. facility from 1920 S. Washington in Magnolia to 2570 Columbia 47 in McNeil. This move should be completed by December 31, 2012.

Thank you. Please don't hesitate to call with any questions. 870-695-3487

Jimmy Cheatham
Everette Plating, Inc.

CITY OF MAGNOLIA
Wastewater Treatment

RECEIVED SEP 04 2012

Industrial Wastewater
DISCHARGE PERMIT APPLICATION

Date: 30 August 2012.

SECTION A - GENERAL INFORMATION

1. Facility Name:

Everette Plating Inc

Operator/Manager(s) Name(s):

Jimmy C. Cheatham

Is the operator identified in 1, the owner of the facility? Yes No

If no, provide the name and address of the operator and submit a copy of the contract and/or other documents indicating the operator's scope of responsibility for the facility.

Name	
Title	
Address	
City, State	
Zip Code	

MP

2. Facility Address:

Street	1920 South Washington
City	Magnolia
State	Ark.
Zip Code	71753

3. Business Mailing Address:

P.O. Box	
Street	2570 Columbia 47
City	Magnolia
State	Ark.
Zip	71753

EPI

4. Designated signatory authority of the facility:
(Attach similar information for each authorized representative)

Name	Jimmy C. Cheatham
Title	Owner
Street	S. Washington Ave
City	Magnum
State	Ark
Zip	71753
Phone	870-695-3600
Fax	870-695-3323
Mobile	
Email	JEVAC@JEVACMachinery.com

5. Designated facility contact:

Name	Jimmy C. Cheatham
Title	Owner
Phone	870-695-3600
Mobile	
Email	as above

SECTION B - BUSINESS ACTIVITY

1. If your facility employs or will be employing processes in any of the industrial categories or business activities listed below (regardless of whether they generate wastewater, waste sludge, or hazardous wastes), place a check beside the category or business activity (check all that apply).

Industrial Categories *

- Aluminum Forming
- Asbestos Manufacturing
- Battery Manufacturing
- Can Making
- Carbon Black
- Coal Mining
- Coil Coating
- Copper Forming
- Electric and Electronic Components Manufacturing
- Electroplating
- Feedlots
- Fertilizing Manufacturing
- Foundries (Metal, Molding and Casting)
- Glass Manufacturing

- Grain Mills
- Inorganic Chemicals
- Iron and Steel
- Leather Tanning and Finishing
- Metal Finishing
- Nonferrous Metals Forming
- Nonferrous Metals Manufacturing
- Organic Chemicals Manufacturing
- Paint and Ink Formulating
- Paving and Roofing Manufacturing
- Pesticides Manufacturing
- Petroleum Refining
- Pharmaceutical
- Plastic and Synthetic Materials Manufacturing
- Plastic Processing Manufacturing
- Porcelain Enamel
- Pulp, Paper, and Fiberboard Manufacturing
- Rubber
- Soap and Detergent Manufacturing
- Steam Electric
- Sugar Processing
- Textile Mills
- Timber Products

A facility with processes inclusive in these business areas may be covered by Environmental Protection Agency's (EPA) categorical pretreatment standards. These facilities are termed "categorical users".

2. Give a comprehensive description of all operations at this facility including primary products or services. (attach additional sheets as necessary):

<i>anodizing</i>
<i>conversion coating</i>
<i>passivation</i>

3. Indicate applicable Standard Industrial Classification (SIC) for all processes (If more than one applies, list in descending order of importance.):

Process	SIC Code
<i>anodizing</i>	<i>3471</i>
<i>conversion coating</i>	<i>3312</i>
<i>passivation</i>	<i>3471</i>

EPI

4. PRODUCT VOLUME: *n/a*

Past Calendar Year

Product	Average (Daily Units)	Maximum (Daily Units)

Estimated This Calendar Year *n/a*

Product	Average (Daily Units)	Maximum (Daily Units)

SECTION C - WATER SUPPLY

1. Water Sources: (check as many as are applicable)

(Note: Double click on box to place check mark)

- Private Well
- Surface Water
- Municipal Water Utility

(Specify City):

Magnolia Water Sys

Other (Specify):

2. Water Utility Service Information :

Name on Utility Invoice	<i>Everette Plater</i>
Street	<i>2570 Columbia 47</i>
City	<i>Magnolia</i>
State	<i>Ark 71753</i>
Zip Code	<i>71753</i>
Water Service Account #	<i>16084201</i>

3. List average water usage on premises: (New facilities may estimate)

Type	Average Water Usage (GPD)	Indicate Estimated (E) or Measured (M)

Sanitary

Contact cooling water	50	E
Non-contact cooling water	None	
Boiler feed	None	
Process	50	E
Sanitary	33	E
Air pollution control	0	
Contained in product	0	
Equipment and washdown	0	
Irrigation and lawn care	None	
Other		
Total	88	

SECTION D – SEWER INFORMATION

1. a. For an existing business:

Is the building presently connected to the public sanitary sewer system?

YES: Sanitary sewer account number

MAG AR-04

NO: Have you applied for a sanitary sewer hookup? YES NO

NA b. For a new business:

(i). Will you be occupying an existing vacant building (such as in an industrial park)? YES NO

(ii) Have you applied for a building permit if a new facility will be constructed? YES NO

(iii) Will you be connected to the public sanitary sewer system? YES NO

2. List size, descriptive location, and flow of each facility sewer which connects to the City's sewer system. (If necessary, attach additional information on another sheet.)

Sewer Size (in inches)	Descriptive Location of Sewer Connection or Discharge Point	Average Flow (Gallons Per Day)
4"	<i>S. End of Bldg</i>	<i>90.0 E</i>
<i>4"</i>		

SECTION E – WASTEWATER DISCHARGE INFORMATION

1. Does (or will) this facility discharge any wastewater other than from restrooms to the City sewer?

YES If the answer to this question is "YES", complete the remainder of the application.

NO If the answer to this question is "NO", skip to Section I.

2. Provide the following information on wastewater flow rate.
[New facilities may estimate]

Hours per Day Discharged (example, 8 hours / day)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		✓				

Hours of Discharge (example, 9am to 5pm)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		0900 / 1300				

Peak Hourly Flow Rate (GPD)	50
Maximum Daily Flow Rate (GPD)	50
Annual Daily Average (GPD)	50

3. If batch discharge occurs or will occur, indicate:
(New facilities may estimate)

Number of batches per day	1
Average discharge per batch (GPD)	150
Day(s) of week discharges occur	1
Time(s) of discharge (indicate am or pm)	AM
Flow rate (gallons per minute)	15 L
Percent of total discharge	10%

4. Schematic Flow Diagram – For each major activity in which wastewater is or will be generated, draw a diagram of the flow of materials, products, water, and wastewater from the start of the activity to its completion, show all unit processes. Indicate which processes use water and which generate waste streams. Include the average daily volume and maximum daily volume of each waste stream (new facilities may estimate). If estimates are used for flow data this must be indicated. Number each unit process having wastewater discharges to the community sewer. Use these numbers when showing these unit processes in the building layout in Section H. This drawing must be certified by a State Registered Professional Engineer.

Facilities that checked activities in question 1 of Section B are considered Categorical Industrial Users and should skip to question 6.

5. For Non-Categorical Users Only: List average wastewater discharge, maximum discharge, and type of discharge (batch, continuous, or both), for each plant process. Include the reference number from the process schematic that corresponds to each process. (New facilities should provide estimates for each discharge).

Number	Process Description	Average Flow (GPD)	Maximum Flow (GPD)	Type of Flow (batch, continuous, none)
1		50	50	Batch

ANSWER QUESTION 6 & 7 ONLY IF YOU ARE SUBJECT TO CATEGORICAL PRETREATMENT STANDARDS.

6. For Categorical Users: Provide the wastewater discharge flows for each of your processes or proposed processes. Include the reference number from the process schematic that corresponds to each process. (New facilities should provide estimates for each discharge).

Number	Regulated Process	Average Flow (GPD)	Maximum Flow (GPD)	Type of Flow (batch, continuous, none)
1	MIXED ANODIZE	150	300	Batch

Number	Unregulated Process	Average Flow (GPD)	Maximum Flow (GPD)	Type of Flow (batch, continuous, none)

Number	Dilution	Average Flow (GPD)	Maximum Flow (GPD)	Type of Flow (batch, continuous,

				none)

7. For Categorical Users Subject to Total Toxic Organic (TTO) Requirements:

Provide the following (TTO) information.

a. Does (or will) this facility use any of the toxic organics that are listed under the TTO standard of the applicable categorical pretreatment standards published by EPA?

- YES
 NO

b. Has a baseline monitoring report (BMR) been submitted which contains TTO information?

- YES
 NO

c. Has a toxic organics management plan (TOMP) been developed?

- YES
 NO

8. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

Current: Flow Metering
Sampling Equipment

- YES NO N/A
 YES NO N/A

Planned: Flow Metering
Sampling Equipment

- YES NO N/A
 YES NO N/A

If so, please attach drawings of the present or future location of this equipment and describe the equipment below:

9. Are any process changes or expansions planned during the next three years that

could alter wastewater volumes or characteristics? Consider production processes as well as air or water pollution treatment processes that may affect the discharge.

- YES
 NO (skip question 10)

10. Briefly describe these changes and their effects on the wastewater volume and characteristics: (Attach additional sheets if needed.)

<i>Add: Reverse osmosis equipment</i>

11. Are any materials or water reclamation systems in use or planned?

- YES
 NO (skip question 12)

12. Briefly describe recovery process, substance recovered, percent recovered, and the concentration in the spent solution. Submit a flow diagram for each process: (Attach additional sheets if needed.)

See above.

SECTION F - CHARACTERISTICS OF DISCHARGE

All current industrial users are required to submit monitoring data on all pollutants that are regulated specific to each process. Use the tables provided in this section (starting on page 12) to report the analytical results.

(U) for unknown.

For all other (non-regulated) pollutants, indicate whether the pollutant is; known to be present (P), suspected to be present (S), or known *not* to be present (O), by placing the appropriate letter in the column for average reported values.

New dischargers should use the table to indicate what pollutants will be present or are suspected to be present in proposed waste streams by placing a;

(P) expected to be present,
(S) may be present, or
(O) will not be present under the average reported values.

Pollutant	Detection Level Used mg/l	Maximum Daily Value		Average of Analysis		Number of Analyses
		mg/l	lbs./day	mg/l	lbs./day	
Acenaphthylene	0					
Acrolein						
Acrylonitrile						
Benzene						
Benzidene						
Carbon Tetrachloride						
Chlorobenzene						
1,2,4-Trichlorobenzene						
Hexachlorobenzene						
1,2-Dichloroethane						
1,1,1-Trichloroethane						
Hexachloroethane						
1,1-Dichloroethane						
1,1,2-Trichloroethane						
1,1,2,2-Tetrachloroethane						
Chloromethane						
Bis (2-chloroethyl) ether						
17 Bis (chloro methyl) ether						
2-Chloroethyl vinyl ether						
2-Chloronaphthalene						
2,4,5-Trichlorophenol						
Parachlorometa cresol						
Chloroform						
2-Chlorophenol						
1,2-Dichlorobenzene						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
3,3-Dichlorobenzidene						
1,1-Dichloroethylene						
1,2-Trans-dichloroethylene						
2,4-Dichlorophenol						
1,2-Dichloropropane						
1,2-Dichloropropylene						
1,3-Dichloropropylene						
2,4-Dimethylphenol						
2,4-Dinitrotoluene						
2,6-Dinitrotoluene						
Diphenolhydrazine						
Ethyl benzene						
Fluoranthane						
4-Chlorophenyl phenyl ether						
4-Bromophenyl phenyl ether						

Pollutant	Detection Level Used mg/l	Maximum Daily Value		Average of Analysis		Number of Analyses
		mg/l	lbs./day	mg/l	lbs./day	
Bis (2-chlorisopropyl) ether	0					
Bis (2-chloroethoxy) methane						
Methylene Chloride						
Methyl chloride						
Methyl bromide						
Bromoform						
Dichlorobromomethane						
Chlorodibromomethane						
Hexachlorobutadiene						
Hexachlorocyclopentadiene						
Isophorone						
Naphthalene						
Nitrobenzene						
Nitrophenol						
2-Nitrophenol						
4-Nitrophenol						
2,4-Dinitrophenol						
4,6-Dinitro-o-cresol						
N-nitrosodimethylamine						
N-nitrosodiphenylamine						
N-nitrosodi-n-propylamine						
Pentachlorophenol						
Phenol						
Bis (2-ethylhexyl) phthalate						
Butyl benzyl phthalate						
Di-n-butyl phthalate						
Di-n-octyl phthalate						
Diethyl phthalate						
Dimethyl phthalate						
Benzo (a) anthracene						
Benzo (a) pyrene						
3,4-benzofluoranthene						
Benzo (k) fluoranthene						
Chrysene						
Acenaphthylene						
Anthracene						
Benzo (ghi) perylene						
Fluorine						
Phenanthrene						
Dibenzo (ah) anthracene						
Indeno (1,2,3,-cd) pyrene						
Pyrene						

Pollutant	Detection Level Used mg/l	Maximum Daily Value		Average of Analysis		Number of Analyses
		mg/l	lbs./day	mg/l	lbs./day	
Tetrachloroethylene						
Toluene						
Trichloroethane						
Vinyl chloride						
Aldrin						
Dieldrin						
Chlordane						
4,4-DDT						
4,4-DDE						
4,4-DDD						
Alpha-endosulfan						
Beta-endosulfan						
Endosulfan sulfate						
Endrin						
Endrin adephyde						
Heptachlor						
Heptachlor epoxide						
Alpha-BHC						
Beta-BHC						
Gamma-BHC						
Delta-BHC						
PCB-1242						
PCB-1254						
PCB-1221						
PCB-1232						
PCB-1248						
PCB-1260						
PCB-1016						
Toxaphene						
TCDD						
Asbestos						
Acidity						
Alkalinity						
Bacteria						
BOD ₅						
COD						
Chloride						
Chlorine						
Fluoride						
Hardness						
Magnesium						
NH ₃ -N		< 0.211 day		< 0.24		1

Pollutant	Detection Level Used mg/l	Maximum Daily Value		Average of Analysis		Number of Analyses
		mg/l	lbs./day	mg/l	lbs./day	
Oil and Grease				< 1.8	—	1
T.S.S.				97	—	1
Total Organic Carbon						
Kjeldahl N						
Nitrate-N						
Nitrite-N						
Organic N						
Orthophosphate P						
Phosphorus						
Sodium						
Specific Conductivity						
Sulfate						
Sulfide						
Sulfite						
Antimony						
Arsenic						
Barium				< 0.010		1
Beryllium				< 0.002		1
Cadmium						
Chromium				0.096		1
Copper				0.026		1
Cyanide				< 0.010		1
Lead				0.016		1
Mercury				< 0.005		1
Nickel				0.119		1
Selenium						
Silver				< 0.005		1
Thallium						
Zinc				0.048		1

Indicate on the following table, the type of analysis used for each analyte found to be present. Be sure methods conform to 40 CFR Part 136; if they do not, indicate what method was used.

Analyte Detected	Method of Analysis Used
<i>Various</i>	<i>H500-CN-B</i>
	<i>EPA-200.7</i>

SECTION G – TREATMENT

1. Is any form of wastewater treatment (see list below) practiced at this facility?

- Yes
 No

2. Is any form of wastewater treatment (or changes to existing wastewater treatment) planned for this facility within the next three years?

- Yes, describe:

<i>See Below</i>

- No

3. Treatment devices or processes used or proposed for treating wastewater or sludge (check as many as appropriate).

- Air flotation
- Centrifuge
- Chemical precipitation
- Chlorination
- Cyclone
- Filtration
- Flow equalization
- Grease or oil separation, list type
- Grease trap (if checked, submit a detailed drawing)
- Grinding filter
- Grit removal
- Ion exchange
- Neutralization, pH correction
- Ozonation
- Reverse osmosis *- Not yet purchased*
- Screen
- Sedimentation
- Septic tank

- Solvent separation
- Spill protection
- Sump
- Biological treatment,
Type:
- Rainwater diversion or storage
- Other chemical treatment,
Type:
- Other physical treatment,
Type:
- Other, *press-*
Type:

4. Description:

Describe the pollutant loadings, flow rates, design capacity, physical size, and operating procedures of each treatment facility checked above.

<i>iron exchange 600 GPF</i>
<i>Press -</i>

5. Attach a process flow diagram for each existing treatment system. Include process equipment, by-products, by product disposal method, waste and by-product volumes, and design and operating conditions.

6. Describe any changes in treatment or disposal methods planned or under construction for wastewater discharge to the sanitary sewer. Please include estimated completion dates.

7. Do you have a treatment operator? Yes No (If Yes,)

Name	<i>Blake Henson</i>
Title	<i>- Chemist</i>
Phone	<i>- 870-625-3600</i>
Mobile (cell)	

Email

Full Time (specify hours, days of week)	<input checked="" type="checkbox"/>
Part Time (specify hours, days of week)	10 - Wed.

8. Do you have a manual on the correct operation of your treatment equipment?
 Yes No → *Manufacturer literature*
9. Do you have a written maintenance schedule for your treatment equipment?
 Yes No

SECTION H - FACILITY OPERATIONAL CHARACTERISTICS

1. Shift Information

2. Indicate whether the business activity is:

- Continuous through the year, or
 Seasonal – Check the months of the year during which the business activity occurs:

Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sept.
Oct. Nov. Dec.

Comments:

3. Indicate whether the facility discharge is:

- Continuous through the year, or
 Seasonal – check the months of the year during which the business activity occurs:

Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sept.
Oct. Nov. Dec.

Comments:

4. Does operation shut down for vacation, maintenance, or other reasons?

No

Yes, indicate reasons and period when shutdown occurs:

Down at Christmas, Thanks giving
third week of July.

List types and amounts (mass or volume per day) of raw materials used or planned for use (attach list if needed):

Raw Material	Mass or Volume per Day
See below	

5. List type and quantity of chemicals used or planned for use (attach list if needed). Include copies of Manufacturer's Safety Data Sheets for all chemicals identified:

CHEMICAL	QUANTITY	UNITS ml/s/Liters/Gallons	TIME FRAME Day, Mo., Year
chromic acid	10#	10 pds	per year
603B sodium hydroxide	50 gal cont	550 pds	per year
592 ferric sulfate	50 gal cont	550 pds	per year
592 sulfuric acid			
nickel compound	55 gal	500#	per year
76 BK sodium tripolyphosphate	55 gal	550#	per year
Deep black. MW Powder	30#	30#	5 year supply
sulfuric acid	55 gal	550#	12 year supply
sodium dichromate	1 Bag	1-50# Bag	2 year supply
nitric acid 38 B	30 gal	30 gal. Drum	12 year supply

6. Building Layout – Draw to scale the location of each building on the premises. Show map orientation and location of all water meters, storm drains, numbered unit

processes (from schematic flow diagram), public sewers, and each facility sewer line connected to the public sewers. Number each sewer and show existing and proposed sampling locations. This drawing must be certified by a State Registered Professional Engineer.

A blueprint or drawing of the facilities showing the above items must be attached with this application.

Cannot obtain - will provide by September 30, 2012.

SECTION J - NON DISCHARGED WASTES

1. Are any waste liquids or sludges generated and not disposed of in the sanitary sewer system?

- Yes, please describe below
- No, skip the remainder of Section J

Waste Generated	Quantity (per year)	Disposal Method	On site	Off site (Indicate State, County)
<i>mud cake from filter press</i>	<i>500# E</i>	<i>county disposal.</i>		<i>- Sample sent to Environmental Testing For testing</i>

2. Indicate which wastes identified above are disposed of at an off-site treatment facility and which are disposed of on-site. *mud cake*

3. If any of your wastes are sent to an off-site centralized waste treatment facility, identify the waste and the facility. *mud cake to WCA disposal in Union County - Proposed?*

4. If an outside firm removes any of the above checked wastes, state the name(s) and address(es) of all waste haulers:

Proposed

Business Name	<i>WCA</i>
Street	<i>3083 Smackover Hwy</i>
P.O. Box	
City, State	<i>El Dorado, Ar.</i>
Zip Code	<i>71730</i>
Permit Number	
Telephone	<i>870-725-3821</i>

Not yet in effect

5. Have you been issued any Federal, State, or local environmental permits?

- Yes
- No

If yes, please list the permit(s):

Permitting Entity	Permit Number
N4-	

SECTION I – SPILL/SLUG LOAD PREVENTION

1. Do you have chemical storage containers, bins, or ponds at your facility?

- YES
 NO

If yes, please give a detailed description of their location, contents, size, type, and frequency and method of cleaning. Also indicate in a diagram or comment on the proximity of these containers to a sewer or storm drain. Indicate if buried metal containers have cathodic protection.

<i>Do not have sewer or storm drains.</i>
<i>Chemicals containers for raw chemical</i>

2. Are there floor drains in the manufacturing or chemical storage area(s)?

- YES
 NO

If yes; where do they discharge to?

3. If you have chemical storage containers, bins, or ponds in manufacturing area, could an accidental spill lead to a discharge to: (check all that apply).

- an onsite disposal system
- public sanitary sewer system (e.g. through a floor drain)
- storm drain
- to ground
- other, specify:
- not applicable, no possible discharge to any of the above routes

4. Do you have an accidental spill/slug load prevention plan to prevent spills of chemicals or slug discharges from entering the Control Authority's collection systems?

- Yes - (Please enclose a copy with the application)
- No
- N/A, Not applicable since there are no floor drains and/ or the facility discharge (s) only domestic wastes.

5. Please describe below any previous spill events and remedial measures taken to prevent their reoccurrence.

<i>N/A.</i>	

SECTION K – AUTHORIZED SIGNATURES

Compliance certification:

1. Are all applicable Federal, State, or local pretreatment standards and requirements being met on a consistent basis?

- YES
- NO
- Not yet discharging

2. If No:

- a. What additional operations and maintenance procedures are being considered to bring the facility into compliance? Also, list additional treatment technology or practice being considered in order to bring the facility into compliance.
- b. Provide a schedule for bringing the facility into compliance. Specify major events planned along with reasonable completion dates. Note that if the Control Authority issues a permit to the applicant, it may establish a schedule for compliance different from the one submitted by the facility.

Milestone Activity	Completion Date
NA	

AUTHORIZED REPRESENTATIVE STATEMENT:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Official who compiled reported data for this report

Name: (Printed)	Jimmy Cheatham
Title:	owner
Signature:	Jimmy Cheatham
Date:	30 Aug 2012
Phone:	870-695-3600

Official Signatory for this document

Name: (Printed)	Jimmy C. Cheatham
Title:	owner
Signature:	Jimmy C. Cheatham
Date:	30 Aug 2012
Phone:	870-695-3600



Revision Number: 004.3

Issue date: 03/04/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: #ALODINE 1200S 90 IDH number: 592728
 Product type: Conversion coating
 Region: United States
 Company address: Henkel Corporation
 32100 Stephenson Highway
 Madison Heights, MI 48071
 Contact information: Telephone: 248.583.9300
 For Chemical Emergency: Call CHEMTREC at 800.424.9300
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Solid	HEALTH:	3
Color:	orange	FLAMMABILITY:	0
Odor:	Bland	PHYSICAL HAZARD:	1
		Personal Protection:	See MSDS Section 8

HMIS:

DANGER-CORROSIVE! OXIDIZER!
HARMFUL IF SWALLOWED OR INHALED.
CAUSES EYE, SKIN, DIGESTIVE TRACT, AND RESPIRATORY TRACT BURNS.
MAY CAUSE ALLERGIC SKIN REACTION.
CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Mists, vapors or liquid may cause severe irritation or burns. Prolonged or repeated breathing may cause ulceration of nasal membranes.

Skin contact: Contact with broken skin may lead to formation of firmly margined "chrome sores". Product contains chromium, which may cause an allergic skin sensitization reaction. Massive overexposures may lead to kidney failure and death. Following skin exposure to this product, the sensation of irritation or pain may be delayed.

Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

Ingestion: This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion of small amounts of this product may result in potentially fatal hypocalcemia and systemic toxicity.

Existing conditions aggravated by exposure: Eye, skin and respiratory disorders. Kidney disorders. Contains fluorides. Exposure to fluorides over years may cause fluorosis.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Chromium(VI) oxide	1333-82-0	30 - 60
Potassium tetrafluoroborate	14075-63-7	10 - 30
Tripotassium hexacyanoferrate	13745-66-2	10 - 30
Sodium fluoride	7681-49-4	5 - 10
Dipotassium hexafluorozirconate	16923-95-6	5 - 10

4. FIRST AID MEASURES

Inhalation:	If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing items that cannot be decontaminated.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 10 minutes, and seek immediate medical attention.
Ingestion:	Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Notes to physician:	Ocular exposure to corrosive fluoride compounds has been treated with isotonic sodium chloride or magnesium chloride. Dermal exposure to corrosive fluoride compounds has been treated with calcium gluconate or calcium carbonate gel applied topically to the affected areas to relieve pain at the site of exposure. Treatment of hypocalcemia associated with corrosive fluoride compounds exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate.

5. FIRE FIGHTING MEASURES

Flash point:	Not applicable
Autoignition temperature:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Extinguishing media:	Use media appropriate for surrounding material.
Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	Oxidizing agent, may cause spontaneous ignition of combustible materials. Under fire conditions, decomposing material may form a hot, viscous foam. Violent reactions may occur with organic materials or reducing agents. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full.
Hazardous combustion products:	Irritating and toxic gases or fumes may be released during a fire.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up.

Clean-up methods: Spills should be cleaned immediately to prevent dispersion of airborne dusts. Do not allow product to enter sewer or waterways. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. For industrial use only.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store below 110 °F (43.3 °C).

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Chromium(VI) oxide	0.05 mg/m ³ TWA (as Cr) 0.01 mg/m ³ TWA (as Cr)	1 mg/m ³ TWA (as Cr) 0.005 mg/m ³ TWA (SKIN) 0.0025 mg/m ³ OSHA ACT 29 CFR 1910.1025 0.1 mg/m ³ Ceiling ¹	None	None
Potassium tetrafluoroborate	6 mg/m ³ STEL Inhalable fraction 2 mg/m ³ TWA Inhalable fraction 2.5 mg/m ³ TWA (as F)	2.5 mg/m ³ TWA (as F) 2.5 mg/m ³ TWA Dust.	None	None
Tripotassium hexacyanoferrate	None	None	None	None
Sodium fluoride	2.5 mg/m ³ TWA (as F)	2.5 mg/m ³ TWA Dust. 2.5 mg/m ³ TWA (as F)	None	None
Dipotassium hexafluorozirconate	5 mg/m ³ TWA (as Zr) 10 mg/m ³ STEL (as Zr) 2.5 mg/m ³ TWA (as F)	5 mg/m ³ TWA (as Zr) 2.5 mg/m ³ TWA Dust. 2.5 mg/m ³ TWA (as F)	None	None

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear chemical goggles or a full face shield.

Skin protection: Chemical resistant, impermeable gloves. The use of butyl rubber gloves is recommended. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Color:	orange
Odor:	Bland
Odor threshold:	Not available
pH:	1.30 - 1.60
Vapor pressure:	Not determined
Boiling point/range:	Not applicable
Melting point/ range:	Not available
Vapor density:	Not applicable
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Appreciable
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable at normal conditions
Hazardous reactions:	Will not occur
Hazardous decomposition products:	May liberate hydrogen fluoride.
Incompatible materials:	Avoid contact with organic materials, oils, greases, and any oxidizable materials. This product may react with strong alkalis.
Conditions to avoid:	Oxidizing agent, may cause spontaneous ignition of combustible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Chromium(VI) oxide	Known carcinogen	Group 1	Yes
Potassium tetrafluoroborate	No	No	No
Tripotassium hexacyanoferrate	No	No	No
Sodium fluoride	No	No	No
Dipotassium hexafluoroarsenate	No	No	No

Hazardous components	Health Effects/Target Organs
Chromium(VI) oxide	Allergen, Blood, Central nervous system, Corrosive, Carcinogen, Developmental, Eyes, Gastrointestinal, Irritant, Kidney, Liver, Mutagen, Reproductive, Respiratory
Potassium tetrafluoroborate	Cardiac, Central nervous system, Developmental, Gastrointestinal, Irritant, Kidney, Metabolic, Reproductive
Tripotassium hexacyanoferrate	Cellular
Sodium fluoride	Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Metabolic, Muscle, Teeth, Less weight gain and food intake.
Dipotassium hexafluoroarsenate	Allergen, Blood, Cardiac, Central nervous system, Corrosive, Gastrointestinal tract, Irritant, Kidney, Lung, Metabolic, Muscle, Teeth, Less weight gain and food intake.

12. ECOLOGICAL INFORMATION

Ecological information:	Harmful to aquatic organisms.
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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations
Hazardous waste number: This product contains chromium which is a hazardous waste (D007).

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Chromium trioxide, anhydrous mixture
Hazard class or division: 5.1 (6.1, 8)
Identification number: UN 1463
Packing group: II
DOT Reportable quantity: Chromic acid, Sodium fluoride

International Air Transportation (ICAO/IATA)

Proper shipping name: Chromium trioxide, anhydrous mixture
Hazard class or division: 5.1 (6.1, 8)
Identification number: UN 1463
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: CHROMIUM TRIOXIDE, ANHYDROUS mixture
Hazard class or division: 5.1 (6.1, 8)
Identification number: UN 1463
Packing group: II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: Chromium(VI) oxide (CAS# 1333-82-0).
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Reactive
CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): Chromium(VI) oxide (CAS# 1333-82-0).
CERCLA Reportable quantity: Chromium(VI) oxide (CAS# 1333-82-0) 10 lbs (4.54 kg)
Sodium fluoride (CAS# 7681-49-4) 1,000 lbs. (454 kg)
Dipotassium hexafluorozirconate (CAS# 15923-95-8) 1,000 lbs. (454 kg)
California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class: C, D.1.A, D.2.A, D.2.B, E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: John DiCerbo, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

Material Safety Data Sheet

Material Name: SC0603B

DL

ID: 233619DLF500 / IDH No. 594288

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name SC0603B

DL

Manufacturer Information

Henkel Surface Technologies
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300

Chemtrec Emergency # (800) 424-9300

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
1310-73-2	Sodium hydroxide	>60
7631-99-4	Sodium nitrate	1-10
7681-49-4	Sodium fluoride	1-10

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Water Dissociable Nitrate Compounds, Fluorides, inorganic, Fluorides.

*** Section 3 - Hazards Identification ***

Emergency Overview:

DANGER – CORROSIVE! Contact with this material will cause burns to the skin, eyes and mucous membranes. This product may cause methemoglobinemia characterized by a reduction in oxygen carrying capacity of the blood with symptoms including headache, dizziness, flushed face, fatigue, nausea, vomiting, drowsiness, stupor, tremors, uneven heart action, coma and rarely death.

Eye Contact:

Contact with the eyes can cause severe burns and permanent eye damage. Dust or powder may irritate eye tissue. Contact can cause moderate to severe irritation and possible injury to the eyes.

Skin Contact:

Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns. Following skin exposure to this product, the sensation of irritation or pain may be delayed.

Skin Absorption:

A component in this product may be harmful or fatal if absorbed through the skin, especially if skin is damaged.

Ingestion:

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion of small amounts of this product may result in potentially fatal hypocalcemia and systemic toxicity. Ingestion of large amounts of this product may result in fluoride poisoning including symptoms of calcification of the ligaments and severe bone changes making normal movements painful, mottling of the teeth, pulmonary fibrosis, anemia, anorexia, dental effects, and possibly death.

Inhalation:

Inhalation of dusts may produce upper airway edema, wheezing, pulmonary edema, pneumonitis, cyanosis (blue discoloration of the skin), respiratory failure and death. The repeated breathing of this material for years may cause fluorosis.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin and respiratory disorders. Preexisting cardiovascular or bone marrow diseases.

*** Section 4 - First Aid Measures ***

Eye Contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

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Skin Contact:

Immediately take off all contaminated clothing. Immediately take off all contaminated clothing. Flush with large amounts of water. Soak the affected area for one hour in an iced solution (0.13%) of Zephiran chloride (30 cc of 17% concentrate per gallon of iced distilled water.) GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion:

If the material is swallowed, get immediate medical attention or advice – Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation:

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

First Aid: Notes to Physician

If cyanosis is severe, intravenous injection of methylene blue, 1 mg/kg body weight, may be of value. Treatment of hypocalcemia associated with fluoride exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate.

*** Section 5 - Fire Fighting Measures ***

Flash Point:	Not applicable	Method Used:	Not applicable	Flammability	Not applicable
Upper Flammable	Not applicable	Lower Flammable	Not applicable	Classification:	
Limit (UFL):		Limit (LFL):			

Fire & Explosion Hazards:

May react with metals to form flammable hydrogen gas. This product contains a component which is an oxidizing agent.

Decomposition Products:

Hazardous decomposition may produce fluorine. Decomposition of this product may emit oxides of nitrogen.

Extinguishing Media:

Use any media suitable for the surrounding fires.

Fire-Fighting Instructions:

Firefighters should wear full protective clothing including self contained breathing apparatus.

*** Section 6 - Accidental Release Measures ***

Containment Procedures:

Wear appropriate protective equipment and clothing during clean-up.

Clean-Up Procedures:

Sweep up or gather material and place in appropriate container for disposal. Dispose of collected material according to regulation.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling. Do not inhale vapors or mists of this product. Do not take internally. For industrial use only. Use this product with adequate ventilation. NEVER ADD WATER TO PRODUCT. For dilutions, add product slowly to water while stirring. Use caution; heat may be generated.

Storage Procedures:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

Material Safety Data Sheet

Material Name: SC0603B

DL

ID: 233619DLF500 / IDH No. 594288

B: Component Exposure Limits

Sodium hydroxide (1310-73-2)

ACGIH: 2 mg/m3 Ceiling

OSHA: 2 mg/m3 TWA

NIOSH: 2 mg/m3 Ceiling

Sodium fluoride (7681-49-4)

ACGIH: 2.5 mg/m3 TWA (as F) (related to Fluorides)

OSHA: 2.5 mg/m3 TWA (as F) (related to Fluorides)

NIOSH: 2.5 mg/m3 TWA (as F)

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Eyes/Face Protective Equipment:

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection:

Use impervious gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of dusts, appropriate NIOSH/MSHA respiratory protection must be provided.

Work Practices:

Eyewash fountains and emergency showers are required.

*** Section 9 - Physical & Chemical Properties ***

Physical State:	Solid	Appearance:	White
Odor:	Bland	Vapor Pressure:	Not determined
Vapor Density:	Not determined	Boiling Point:	Not determined
Specific Gravity:	Not determined	pH:	13.1
Viscosity:	Not determined	VOC:	Not applicable
Solubility Water:	Appreciable	Evaporation Rate:	Not determined
Percent Volatile:	Not applicable	Percent Solids:	Not determined

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Heat. Contact with most metals produces highly flammable hydrogen gas.

Incompatibility:

This product reacts with acids. Adding water to this product may cause localized overheating and splattering. This product may react with reducing agents. This product may react with metals, halogens. Explosive HYDROGEN GAS may be released if aqueous solutions of this material come into contact with reactive metals (IRON, ZINC, ALUMINUM).

Decomposition Products:

May liberate hydrogen fluoride. Decomposes with heat to produce oxides of nitrogen.

Hazardous Polymerization:

Will not occur.

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*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

Sodium hydroxide is an alkaline corrosive that results in severe irritation and burns to the eyes, skin, respiratory system, and gastrointestinal system. Sodium hydroxide has been implicated as a cause of cancer in humans. However, this may be a secondary effect of the tissue destruction and scar formation caused by sodium hydroxide. Embryotoxicity in rats may be attributed to an alteration of pH in the amniotic fluid rather than the sodium hydroxide itself.

B: Component Analysis - LD50/LC50

Sodium hydroxide (1310-73-2)

Dermal LD50 Rabbit: 1350 mg/kg

Sodium nitrate (7631-99-4)

Oral LD50 Rat: 1267 mg/kg

Sodium fluoride (7681-49-4)

Oral LD50 Rat: 52 mg/kg; Dermal LD50 Rat: 175 mg/kg

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Sodium fluoride (7681-49-4)

ACGIH: A4 - Not Classifiable as a Human Carcinogen (related to Fluorides)

Chronic Toxicity

Some nitrates are associated with the development of methemoglobinemia. Ingested soluble nitrates can be reduced to nitrites in the body, which can then decrease the oxygen carrying capacity of the blood.

Chronic exposure to fluoride compounds may result in fluorosis characterized by calcification of ligaments and severe bone changes which result in painful movements, mottling of the teeth, pulmonary fibrosis, anemia, anorexia, and weight loss.

Epidemiology:

No information available for the product.

Neurotoxicity:

No information available for the product.

Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

Other Toxicological Information:

None available.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No data available for this product.

Material Safety Data Sheet

Material Name: SC0603B

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ID: 233619DLF500 / IDH No. 594288

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium hydroxide (1310-73-2)

Test & Species

96 Hr LC50 Oncorhynchus mykiss 45.4 mg/L [static]

Conditions

Sodium nitrate (7631-99-4)

Test & Species

96 Hr LC50 Lepomis macrochirus 9000 mg/L [static]

Conditions

Sodium fluoride (7681-49-4)

Test & Species

96 Hr LC50 Lepomis macrochirus >530 mg/L

96 Hr EC50 Selenastrum capricornutum 272 mg/L

48 Hr EC50 Daphnia magna 338 mg/L

Conditions

Environmental Fate:

No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Numbers & Descriptions:

A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Sodium hydroxide (1310-73-2)

CERCLA: 1000 lb final RQ; 454 kg final RQ

Sodium nitrate (7631-99-4)

SARA 313: 1.0 % de minimis concentration (Chemical Category N511) (related to Water Dissociable Nitrate Compounds)

Sodium fluoride (7681-49-4)

CERCLA: 1000 lb final RQ; 454 kg final RQ

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactive: No

Material Safety Data Sheet

Material Name: SC0603B

DL

ID: 233619DLF500 / IDH No. 594288

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Sodium hydroxide	1310-73-2	Yes	No	Yes	Yes	Yes	Yes
Sodium nitrate	7631-99-4	No	No	Yes	No	Yes	Yes
Sodium fluoride (related to Fluorides, inorganic)	7681-49-4	Yes	No	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Sodium hydroxide	1310-73-2	Yes	Yes	Yes
Sodium nitrate	7631-99-4	Yes	Yes	Yes
Sodium fluoride	7681-49-4	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium hydroxide	1310-73-2	1 %
Sodium nitrate	7631-99-4	1 %
Sodium fluoride	7681-49-4	1 %

*** Section 16 - Other Information ***

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 3 Fire: 0 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Product Safety and Regulatory Affairs

Contact Phone: (248) 583-9300

This is the end of MSDS # 233619DLF500 / IDH No. 594288

Material Safety Data Sheet



Revision Number: 004.1

Issue date: 12/11/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SC0592
Product type: Cleaner

IDH number: 593851

Region: United States

Company address:
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact information:
Telephone: 248.583.9300
For Chemical Emergency: Call CHEMTREC at 800.424.9300
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid
Color: Brown
Odor: Acidic

HMS:

HEALTH: 3
FLAMMABILITY: 0
PHYSICAL HAZARD: 0
Personal Protection: See MSDS Section 8

DANGER-CORROSIVE!: CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

- Inhalation: Mists, vapors or liquid may cause severe irritation or burns. Contains fluorides. Exposure to fluorides over years may cause fluorosis.
Skin contact: Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns. Following skin exposure to this product, the sensation of irritation or pain may be delayed. A component in this product may be harmful or fatal if absorbed through the skin, especially if skin is damaged.
Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion: This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Contains fluorides. Exposure to fluorides over years may cause fluorosis.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders. Preexisting cardiovascular or bone marrow diseases.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Table with 3 columns: Hazardous components, CAS NUMBER, %

IDH number: 593851

Product name: SC0592

Recd 29 Aug 10

4. FIRST AID MEASURES

Inhalation:	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
Skin contact:	Remove contaminated clothing and footwear. Rinse with large amounts of running water. GET MEDICAL ATTENTION IMMEDIATELY! If iced 0.13% benzalkonium chloride (Zephiran) solution or 2.5% calcium gluconate gel are available, the rinsing may be limited to 5 minutes, with the soaks or gel applied as soon as the rinsing is stopped. If benzalkonium chloride or calcium gluconate gel is not available, rinsing must continue until medical treatment is provided.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Notes to physician:	Ocular exposure to corrosive fluoride compounds has been treated with isotonic sodium chloride or magnesium chloride. Dermal exposure to corrosive fluoride compounds has been treated with calcium gluconate or calcium carbonate gel applied topically to the affected areas to relieve pain at the site of exposure. Treatment of hypocalcemia associated with corrosive fluoride compounds exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate. If cyanosis is severe, intravenous injection of methylene blue, 1 mg/kg body weight, may be of value.

5. FIRE FIGHTING MEASURES

Flash point:	107 °C (224.6 °F)
Autoignition temperature:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Extinguishing media:	Use media appropriate for surrounding material.
Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	May react with metals to form flammable hydrogen gas. This product is an aqueous mixture which will not burn.
Hazardous combustion products:	Upon decomposition, this product emits oxides of sulfur, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen. May liberate hydrogen fluoride. Decomposition of this product may yield ammonia gas.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.	
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Dike the spilled material, where this is possible. Block any potential routes to water systems.
Clean-up methods:	Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Do not take internally. For industrial use only. Provide adequate ventilation. Use caution when combining with water; DO NOT add water to acid, ALWAYS add acid to water while stirring to prevent release of heat, steam and fumes.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Supplier recommends that this product be stored with a vented bung.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ferric sulfate	1 mg/m ³ TWA (as Fe)	None	None	None
Sulfuric acid	0.2 mg/m ³ TWA Thoracic fraction	1 mg/m ³ TWA	None	None
Nitric acid	2 ppm TWA 4 ppm STEL	2 ppm (5 mg/m ³) TWA	None	None
Ammonium bifluoride	2.5 mg/m ³ TWA (as F)	2.5 mg/m ³ TWA (as F) 2.5 mg/m ³ TWA Dust	None	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Brown
Odor:	Acidic
Odor threshold:	Not available
pH:	< 1.0
Vapor pressure:	Not applicable
Boiling point/range:	> 225 °F (> 107.2 °C)
Melting point/ range:	Not available
Specific gravity:	1.365 - 1.405
Vapor density:	Not available
Flash point:	107 °C (224.6 °F)
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not applicable
Evaporation rate:	Not available
Solubility in water:	Complete
Partition coefficient (n-octanol/water):	Not available
VOC content:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	May liberate hydrogen fluoride. Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons. Oxides of sulfur.
Incompatible materials:	Avoid contact with organic materials, oils, greases, and any oxidizable materials. This material will react with glass, concrete, certain metals, silica containing materials, rubber, leather, and many organics. This product may react with strong alkalis. Adding water to this product may cause localized overheating and splattering.
Conditions to avoid:	Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ferric sulfate	No	No	No
Sulfuric acid	Known carcinogen.	Group 1	No
Nitric acid	No	No	No
Ammonium bifluoride	No	No	No

Hazardous components	Health Effects/Target Organs
Ferric sulfate	Eyes, Gastrointestinal, Irritant, Liver, Lung, Metabolic, Vascular
Sulfuric acid	Carcinogen, Corrosive, Irritant, Lung
Nitric acid	Irritant, Corrosive, Lung, Teeth
Ammonium bifluoride	Cardiac, Corrosive, Gastrointestinal tract, Irritant, Kidney, Lung, Metabolic, Nervous System, Respiratory, Teeth

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002).

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid, Sulfuric acid)
Hazard class or division: 8
Identification number: UN 3264
Packing group: II
DOT Reportable quantity: Ferric sulfate, Sulfuric acid

International Air Transportation (ICAO/IATA)

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid, Sulphuric acid)
Hazard class or division: 8
Identification number: UN 3264
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid, Sulphuric acid)
Hazard class or division: 8
Identification number: UN 3264
Packing group: II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: None above reporting de minimus
CERCLA/SARA Section 302 EHS: Sulfuric acid (CAS# 7664-93-9). Nitric acid (CAS# 7697-37-2).
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Sulfuric acid (CAS# 7664-93-9). Nitric acid (CAS# 7697-37-2). Ammonium bifluoride (CAS# 1341-49-7).
CERCLA Reportable quantity: Ferric sulfate (CAS# 10026-22-5) 1,000 lbs. (454 kg)
Sulfuric acid (CAS# 7664-93-9) 1,000 lbs. (454 kg)
Nitric acid (CAS# 7697-37-2) 1,000 lbs. (454 kg)
Ammonium bifluoride (CAS# 1341-49-7) 100 lbs. (45.4 kg)
California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class: D.2.A, D.2.B, E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Jennifer Mckay, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

Existing conditions aggravated by exposure:

Pre-existing skin, eye and respiratory allergies.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Nickel compound	373-02-4	10 - 30
Acetic acid	64-19-7	1 - 5
Surfactant(s)	Proprietary	1 - 5

4. FIRST AID MEASURES

Inhalation:

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

Skin contact:

Immediately remove soiled or soaked clothing. Wash with soap and water. If symptoms develop and persist, get medical attention.



Revision Number: 004.1

Issue date: 12/02/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **ANOSEAL 1000** IDH number: 771942
 Product type: Additive for the anodisation of metals
 Region: United States
 Company address: Henkel Corporation
 32100 Stephenson Highway
 Madison Heights, MI 48071
 Contact information: Telephone: 248.583.9300
 For Chemical Emergency: Call CHEMTREC at 800.424.9300
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Liquid	HEALTH:	2
Color:	Light green	FLAMMABILITY:	0
Odor:	Acidic	PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8

WARNING: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
 MAY CAUSE ALLERGIC SKIN REACTION.
 CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

Relevant routes of exposure: Not available

Potential Health Effects

Inhalation: May cause respiratory tract irritation.
Skin contact: This product may cause irritation to the skin. This product contains a component that may cause allergic skin reactions.
Eye contact: This product may be severely irritating to the eyes. Symptoms include itching, burning, redness and tearing.
Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhea.

Existing conditions aggravated by exposure: Pre-existing skin, eye and respiratory allergies.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
 See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Nickel compound	373-02-4	10 - 30
Acetic acid	64-19-7	1 - 5
Surfactant(s)	Proprietary	1 - 5

4. FIRST AID MEASURES

Inhalation: If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
Skin contact: Immediately remove soiled or soaked clothing. Wash with soap and water. If symptoms develop and persist, get medical attention.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: Seek medical advice. DO NOT induce vomiting unless directed to do so by medical personnel.

5. FIRE FIGHTING MEASURES

Flash point: Not applicable

Autoignition temperature: Not applicable

Flammable/Explosive limits - lower: Not applicable

Flammable/Explosive limits - upper: Not applicable

Extinguishing media: Use media appropriate for surrounding material.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: This product is an aqueous mixture which will not burn.

Hazardous combustion products: Irritating and toxic gases or fumes may be released during a fire.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Wear suitable protective clothing, gloves and eye/face protection. Do not allow product to enter sewer or waterways.

Clean-up methods: Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not take internally. For industrial use only. Mix well before using.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Protect from freezing. Ship and store above 50 °F.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Nickel compound	None	1 mg/m ³ TWA (as Ni)	None	None
Acetic acid	10 ppm TWA 15 ppm STEL	10 ppm (25 mg/m ³) TWA	None	None
Surfactant(s)	None	None	None	None

Engineering controls: Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Light green
Odor:	Acidic
Odor threshold:	Not available
pH:	5.0 - 5.8 (2% solution)
Vapor pressure:	17 mm hg (aqueous solution)
Boiling point/range:	> 101.7 °C (> 215.1 °F) calculated
Melting point/ range:	Not determined
Specific gravity:	1.07 - 1.10
Vapor density:	Heavier than air
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not applicable
Evaporation rate:	Greater than butyl acetate.
Solubility in water:	Complete
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Incompatible materials: This product may react with strong oxidizing agents. Keep away from alkalis.

Conditions to avoid: None identified.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Nickel compound	Known carcinogen.	Group 1	No
Acetic acid	No	No	No
Surfactant(s)	No	No	No

Hazardous components	Health Effects/Target Organs
Nickel compound	Allergen, Blood, Central nervous system, Corrosive, Developmental, Immune system, Irritant, Kidney, Liver, Lung, Mutagen, Reproductive, Respiratory, Sensory, Some evidence of carcinogenicity
Acetic acid	Allergen, Corrosive, Eyes, Gastrointestinal, Immune system, Irritant, Kidney
Surfactant(s)	No Records

12. ECOLOGICAL INFORMATION

Ecological information: No data available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.
Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Nickel di(acetate))
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nickel di(acetate))
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
Marine pollutant: Nickel di(acetate)
Exceptions: Classified per IMDG Amendment 34; Effective Jan 1, 2010.

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: None above reporting de minimus
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Nickel compound (CAS# 373-02-4).
California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: John DiCerbo, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

Material Safety Data Sheet

ID: 233490

Material Name: SC0078BK

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name SC0078BK

Manufacturer Information

Henkel Surface Technologies
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300

Chemtec Emergency # (800) 424-9300

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
7758-29-4	Sodium tripolyphosphate	>60
Proprietary	Sodium alkylated naphthalene sulfonate	10-30
1330-43-4	Sodium Tetraborate	10-30
7632-00-0	Sodium nitrite	1-10
7681-57-4	Sodium metabisulfite	1-10

*** Section 3 - Hazards Identification ***

Emergency Overview:

WARNING! This product is harmful if swallowed. Harmful if inhaled. Contact with this product may cause severe eye damage.

Eye Contact:

This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Skin Contact:

Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

Skin Absorption:

None expected.

Ingestion:

This product is harmful if swallowed. This product may cause methemoglobinemia characterized by a reduction in oxygen carrying capacity of the blood with symptoms including headache, dizziness, flushed face, fatigue, nausea, vomiting, drowsiness, stupor, tremors, uneven heart action, coma and rarely death.

Inhalation:

Harmful if inhaled. May produce blood effects (methemoglobinemia and anemia) reducing the blood's ability to transport oxygen. Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin and respiratory disorders. Preexisting cardiovascular or bone marrow diseases.

*** Section 4 - First Aid Measures ***

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

Skin Contact:

Immediately take off all contaminated clothing. For skin contact, wash immediately with soap and water. Call a physician if symptoms develop or persist.

Ingestion:

If the material is swallowed, get immediate medical attention or advice – Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation:

If inhaled, immediately remove the affected person to fresh air. Call a physician if symptoms develop or persist.

Material Safety Data Sheet

Material Name: SC0078BK

ID: 233490

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically. If cyanosis is severe, intravenous injection of methylene blue, 1 mg/kg body weight, may be of value.

*** Section 5 - Fire Fighting Measures ***

Flash Point: Not applicable

Method Used: Not applicable

Flammability Classification: Non-flammable

Upper Flammable Limit (UFL): Not applicable

Lower Flammable Limit (LFL): Not applicable

Fire & Explosion Hazards:

Contains sodium nitrite, an oxidizing agent, which may cause spontaneous ignition of combustible materials. Decomposition can release oxygen which supports combustion and reduces the effectiveness of suffocation type fire extinguishers.

Decomposition Products:

Irritating and toxic gases or fumes may be released during a fire.

Extinguishing Media:

Use water only. Do not use dry chemicals, carbon dioxide, or foam.

Fire-Fighting Instructions:

Firefighters should wear full protective clothing including self contained breathing apparatus.

*** Section 6 - Accidental Release Measures ***

Containment Procedures:

Sweep up or gather material and place in appropriate container for disposal. Wash spill area thoroughly. Wear appropriate protective equipment during cleanup.

Clean-Up Procedures:

Dispose of collected material according to regulation.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Avoid contact with eyes, skin and clothing. Avoid breathing dusts from this material. For industrial use only. Do not take internally. Wash thoroughly after handling. Do not mix this product with material which contain AMINES. NITROSAMINE may be formed.

Storage Procedures:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not store above 120 °F. Avoid excessive heat and ignition sources.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Sodium Tetraborate (1330-43-4)

ACGIH: 1 mg/m3 TWA

OSHA: 10 mg/m3 TWA

NIOSH: 1 mg/m3 TWA

Material Safety Data Sheet

Material Name: SC0078BK

ID: 233490

Sodium metabisulfite (7681-57-4)

ACGIH: 5 mg/m3 TWA

OSHA: 5 mg/m3 TWA

NIOSH: 5 mg/m3 TWA

Engineering Controls:

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:

Wear chemical goggles.

Skin Protection:

Use impervious gloves. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of dusts, appropriate NIOSH/MSHA respiratory protection must be provided.

Personal Protective Equipment:

Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

Physical State:	Powder	Appearance:	Tan
Odor:	Solvent	Vapor Pressure:	Not applicable
Vapor Density:	Not applicable	Boiling Point:	Not applicable
Specific Gravity:	Bulk Density: 60 lb/ft3	pH:	Not applicable
Viscosity:	Not applicable	VOC:	Not determined
Solubility Water:	Appreciable	Evaporation Rate:	Not applicable
Percent Volatile:	Not determined	Percent Solids:	100%

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Avoid excessive heat and ignition sources.

Incompatibility:

This product may react with ammonium compounds and reducing agents, particularly cyanides, thiocyanates and thiosulfates. Sodium nitrite may react with organic amines to form nitrosamines. This product reacts with acids to produce oxides of nitrogen. Avoid contact with organic materials, oils, greases, and any oxidizable materials. Keep away from heat, sparks, or open flame. Dry residues of sodium nitrite and sodium thiosulfate explode upon heating.

Decomposition Products:

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Decomposes with heat to produce oxides of nitrogen. Dried product contacted with acid can produce toxic fumes of cyanide.

Hazardous Polymerization:

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

No information available for the product.

Material Safety Data Sheet

Material Name: SC0078BK

ID: 233490

B: Component Analysis - LD50/LC50

Sodium tripolyphosphate (7758-29-4)

Oral LD50 Rat : 3120 mg/kg

Oral LD50 Mouse : 3100 mg/kg

Sodium nitrite (7632-00-0)

Inhalation LC50 Rat : 5500 ug/m³/4H

Oral LD50 Rat : 180 mg/kg

Oral LD50 Mouse : 175 mg/kg

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Sodium metabisulfite (7681-57-4)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Chronic Toxicity

Ingestion of nitrites may produce toxicity because nitrites convert hemoglobin into methemoglobin. This produces tissue anoxia and development of symptoms including cyanosis, nausea, vertigo, vomiting, abdominal pain, convulsions, coma and possible death.

Epidemiology:

No information available for the product.

Neurotoxicity:

No information available for the product.

Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

Other Toxicological Information:

None available.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium nitrite (7632-00-0)

Test & Species

LC50 (96 hr) rainbow trout (juvenile) 0.19-0.39 mg/L.

Conditions

Flow-through.

Environmental Fate:

No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Numbers & Descriptions:

A: General Product Information

Contains sodium nitrite, which is an oxidizing agent. This chemical contains phosphates.

Material Safety Data Sheet

Material Name: SC0078BK

ID: 233490

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Sodium tripolyphosphate (7758-29-4)

CERCLA: final RQ = 5000 pounds (2270 kg) (Listed under "Sodium phosphate, tribasic")

Sodium nitrite (7632-00-0)

SARA 313: form R reporting required for 1.0% de minimis concentration

CERCLA: final RQ = 100 pounds (45.4 kg)

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactive: No

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Sodium tripolyphosphate	7758-29-4	Yes	No	Yes	No	Yes	Yes
Sodium Tetraborate	1330-43-4	Yes	Yes	Yes	Yes	No	Yes
Sodium nitrite	7632-00-0	Yes	No	Yes	No	Yes	Yes
Sodium metabisulfite	7681-57-4	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Sodium tripolyphosphate	7758-29-4	Yes	Yes	Yes
Sodium Tetraborate	1330-43-4	Yes	Yes	Yes
Sodium nitrite	7632-00-0	Yes	Yes	Yes
Sodium metabisulfite	7681-57-4	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium Tetraborate	1330-43-4	1% item 1428 (315)
Sodium nitrite	7632-00-0	1% item 1453 (1218)
Sodium metabisulfite	7681-57-4	1% item 1447 (1083)

Material Safety Data Sheet

Material Name: SC0078BK

ID: 233490

*** Section 16 - Other Information ***

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 2 Fire: 0 Reactivity: 0 Pers. Prot.:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: S. Leffingwell

Contact Phone: (248) 583-9300

This is the end of MSDS # 233490

Material Safety Data Sheet

MAY -07
 Lot 112 58760
 From Harcross

Trade Name: Nitric Acid
 Supplier: Harcross Chemicals, Inc.
 5200 Speaker Road
 Kansas city, KS 66108-1095

Suppliers Telephone Number: 913-321-3131
 Transportation Emergency Telephone Number: 1-800-424-9300
 MSDS No. 000944

Product Names: Nitric Acid; Nitric Acid 38 BE; Nitric Acid 40BE; Nitric Acid 41 BE; Nitric Acid 42 BE
 Nitric Acid Reagent Grade
 Nitric Acid 10%, 15%, 40%
 Nitric Acid Solution

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
Nitric Acid	7697-37-2	HNO ₃	52-70	5mg/M ³ 4 ppm STEL	2 ppm TWA
Water	7732-18-5	H ₂ O	Non-hazardous 48-30		

HEALTH HAZARDS

Ingestion: Ingestion causes discoloration of teeth, mouth and throat; stomachache, nausea, vomiting of blood, anuria, albuminuria and casts, circulatory collapse.

Inhalation: Inhalation causes dental erosion, cough, sneeze, chest pain, bronchitis, bronchopneumonia. May cause delayed pulmonary edema, which may be severe and sometimes fatal.

Eye Contact: Vapors are highly irritating to eyes. Acid can destroy eyes.

Skin Absorption: It destroys tissues, causes burns, severe pain and staining of skin yellow to brown.

Skin Contact: On contact with skin, it can destroy tissues, burn skin and may stain skin, sometimes a yellow color.

Effects of Overdose: May cause acute or chronic pulmonary problems. Causes burning and corrosion of mouth, throat, esophagus, stomach, stomachache, nausea, shock, circulatory collapse, and death.

FIRST AID

Ingestion: GET PROMPT MEDICAL ATTENTION. If patient is conscious, give large quantities of water. DO NOT INDUCE VOMITING.

Inhalation: Remove person from exposure to fresh air. Support respiration; give artificial resuscitation and call a doctor. Observe for 24 hours as symptoms may be delayed.

Eyes: Flush thoroughly with fresh running water for 15-20 minutes and call a doctor.

Skin: Wash thoroughly with fresh running water for 15 minutes and call a physician. Remove all contaminated clothing while flushing with water. Do not reuse contaminated clothing until laundered.

FIRE AND EXPLOSION HAZARDS

Extinguishing Media: Use water spray and suitable media to extinguish source of fire.

Special Fire Fighting Procedures: Do not apply water directly to acid. Keep containers cool. Full protective clothing including self-contained breathing apparatus, chemical gloves, and bands around legs, arms and waist should be provided. No skin surface should be exposed.

Unusual Fire and Explosion Hazards: Reacts explosively with metallic powders, carbides, hydrogen sulfide, and turpentine. Spontaneous ignition with organic materials. Reacts violently with acetic acid, acetic anhydride, (acetone + acetic acid), (acetone + H₂SO₄), acetylene, acrolein, acrylonitrile, allyl alcohol, ethyl chloride, 2-amino ethanol, NH₃, NH₄OH, aniline, anion exchange resins, (dichromate + anion exchange resins), Sb, AsH₃, Bi, B, boron decahydride, BP, BrF₃, n-butylaldehyde, Ca hypophosphite, C, Ca₂C₂, 4-chloro-2-nitroaniline, ClF₃, chlorosulfonic acid, cresol, cumene, Cu₂N₂, Cu₂N₄, cyanides, cyclic ketones, cyclohexanol, cyclohexanone, diborane, 2,6-di-tert-butyl phenol, diisopropyl ether, epichlorohydrin, ethanol, m-ethylaniline, ethylene diamine, ethylene imine, 5-ethyl-2-methyl pyridine, 5-ethyl-2-picoline, C₂H₅PH₂, FeO, F₂, furfuryl alcohol, Ge, glyoxal, hydrazine, HN₃, HI, H₂O₂, H₂Se, H₂S, H₂Te, (indane + H₂SO₄), isoprene, (ketones + H₂O₂), (lactic acid + HF), Li, Li₂Si₂, Mg, Mg₃P₂, Mg-Ti alloy, Mn, mesitylene, mesityl oxide, 2-methyl-5-ethyl pyridine, 4-methyl-cyclohexanone, NaP, nitrobenzene, deum, organic matter, PH₃, PH₃I, P, P₂O₅, PCl₃, phthalic acid, phthalic anhydride, H₂PO₃, beta-propiolactone, prophosphide, (Ag + ethanol), Na, Na₂S, NaOH, SbH₃, sulfamic acid, (H₂SO₄ + glycerides), terpenes, B₂H₆, thiocyanates, thiophene e, Ti, Ti alloy, Ti-Mg alloy, (H₂SO₄ + C₆H₅CH₃), toluene, triazine, uns-dimethyl hydrazine, U, U-Nd alloy, U-Nd-Zr alloy, vinylacetate, vinylidene chloride, Zn, Zr-U alloys.

SPILL AND LEAK PROCEDURES

Environmental Precautions: Toxic to aquatic life. Do not contaminate any waterway or any body of water by direct application, cleaning of equipment or disposal of nitric acid.

Steps to be taken in case material is released or spilled:

Wear full protective clothing and self-contained breathing apparatus. Dike area to contain spill. Reclaim or neutralize with an equal mixture of soda ash and slaked lime. Wash neutralized acid into impounded areas. Advise environmental authorities if substance has entered a sewer or water course, or has contaminated soil or vegetation.

Precautions to be taken in handling and storing:

Protect against physical damage. Separate from metallic powders, carbides, reducing agents, combustible materials, organic acids, and all other readily oxidizable materials. Keep out of direct sunlight and poorly ventilated areas. Have adequate first aid water available.

Trade Name: Nitric Acid
 Registration No: None

Harcros Chemicals, Inc.
 MSDS No. 000944

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Protection: Open ventilation or mechanical to control fumes below TLV.
Respiratory Protection: Acid vapor canister or air-supplied or self-contained breathing apparatus. Some self-contained breathing apparatus may contain oxidizable materials, such as activated carbon and therefore should not be used for protection against nitric acid. Consult with the respirator manufacturers to determine the appropriate type of equipment for a given application.
Protective Clothing: Full protective clothing. Should have chemical suit, chemical boots and chemical gloves available to use. If it is determined that the situation allows use of regular clothing, wear a chemical apron.
Suit Material Performance: (suggested material by E.P.A.—user should determine by specific use)
 Butyl poor Chlorobutyl good Butyl/Neoprene good
 Neoprene good CPE good Nitrile poor
Eye Protection: Chemical splash-proof goggles and/or face shield.
Other: Eye wash fountain and safety shower in area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 167°F
Specific Gravity: 1.32 - 1.43 @ 60°F
Flashpoint: Non-flammable
Appearance: Colorless to light yellowish-brown liquid. Acid odor.
Reaction with Water: Will produce heat and hazardous and corrosive fumes.
Extinguishing Media: Water or media suitable to extinguish source of fire.
Solubility in Water: Infinity
% Volatiles (by volume): Not available
Vapor Pressure, mm Hg: Not applicable
Melting Point: -42°
pH: Less than 1.0

SECTION 10. STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Avoid direct sunlight and poorly ventilated areas.
Incompatibility (Material to Avoid): Aromatic hydrocarbons, alcohols, glycerol, strong bases, metallic powders, carbides, turpentine, and combustible organics and oxidizers. Powerful oxidizing agent, incompatible with many other materials. Check references such as Sax Hazardous Chemicals for full list.
Hazardous Decomposition Products: In oxidation of most organic materials, concentrated nitric acid will produce dense clouds of red or brown oxides of nitrogen.
Hazardous Polymerization: Will not occur

SECTION 11. TOXICOLOGY INFORMATION

Acute Inhalation Toxicity: LC₅₀ (rat) is 65-67 mg/m³; highly toxic by inhalation. (TFI Product Testing Results)
Acute Aquatic Toxicity: Aqueous 6.30 mg/L. Moderately toxic to aquatic organisms. (TFI Product Testing Results)

SECTION 12. ECOLOGICAL INFORMATION

None listed.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Comply with local, state and federal regulations on disposal of "slurry." Never pour water into acid, always pour acid into water. Always obey hazard warnings and handle empty containers as if they were full.

SECTION 14. TRANSPORT INFORMATION

Shipping name: RQ Nitric Acid (other than red fuming, with not more than 70% nitric acid), 8, UN2031, P.G. II
C.A.S. Number: 7697-37-2
Hazard Class: 8
Reportable Quantity (RQ): 1000 lbs.
Labels Required: Corrosive
Placard: Corrosive
Packaging Class: II
D.O.T. Number: UN2031
Haz Waste No.: D002
EPA Regist No.: None
 Refer to 49 CFR 172.101 Hazardous Materials Table for further provisions, packaging authorizations and quantity limitations.

SECTION 15. REGULATORY INFORMATION

Carcinogenicity: by IARC?: Yes () No (X) by NTP: Yes () No (X)
 This product contains nitric acid (52-75%), CAS No. 7697-37-2, which is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1988 and 40 CFR Part 372.

SECTION 16. OTHER INFORMATION

Flash Point (Test Method): Not applicable
Autoignition Temperature: Not applicable
Hazard Rating (H.F.P.A.): Health: 3 Fire: 0 Reactivity: 0
Flammable Limits (% BY VOLUME): LOWER N/A UPPER N/A
Specific: Oxy
MSDS Version Number: 6 (revisions to Section 11)

Disclaimer: The information provided in this Material Safety Data sheet has been obtained from sources believed to be reliable. Harcros Chemicals, Inc. provides no warranties either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is provided for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to our particular use. Harcros Chemicals, Inc. knows of no medical condition, other than those noted on this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

Chemical Interchange Company



222 S. BIRCHWOOD BLVD • ST. LOUIS, MISSOURI 63144 • (314) 982-8322 • FAX (314) 982-9488

CERTIFICATE OF ANALYSIS 41% NITRIC ACID

INVO. 644298
 Range 64.00% - 66.00%
 NO₂ 15 ppm max
 SO₂ 10 ppm max
 FE 15 ppm max
 Cl 5 ppm max
 Color Water White

CUSTOMER Houma

P.O. NUMBER: 110848310

DATE OF SHIPMENT 1-27-05

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8027

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