

MSDS Date: 8/10/10

AS-2121

MSDS No: 102222121-6

### 1. Product And Company Identification

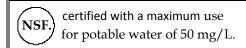
Product Name: AS-2121

**Synonyms:** Cationic homopolymer-aqueous solution; Coagulant

Manufacturer/Supplier: Applied Specialties, Inc. 33555 Pin Oak Parkway Avon Lake, OH 44012 USA

Customer Service/N

Customer Service/Non-Emergency Number: 440-933-9442 Emergency Health/Environmental Number: 216-973-6118 Chemtrec: 800-424-9300



#### 2. Hazards Identification

#### **EMERGENCY OVERVIEW**

Signal Word: Caution!

Straw Yellow Liquid with slight amine odor;

May cause skin and eye irritation. Prolonged or repeated contact may cause skin irritation.

Spills are very slippery.

Potential Health Effects: Primary Routes of Entry – Skin, Eyes, Inhalation, Ingestion.

HMIS III Rating:

Health: 1 Flammability: 0 Physical Hazards: 0 [0-minimal; 1-slight; 2-moderate; 3-serious; 4-severe]

3. Product Identification			
Components	CAS Number	Weight %	Hazardous
Water	7732-18-5	79.5 - 80.75	N
2-Propen-1-aminium, N,N-dimethyl- N-2-propenyl-chloride, homopolymer	26062-79-3	19.25 - 20.5	Υ

This material is classified as hazardous under OSHA regulations.



MSDS Date: 8/10/10

AS-2121

MSDS No: 102222121-6

#### 4. First Aid Measures

**SKIN CONTACT:** Wash/shower with soap and water to remove any chemical from skin. Clothing should be washed before it is reused. Get medical attention if irritation occurs.

**EYE CONTACT:** Immediately flush the eyes with lukewarm water for at least 15 minutes, lifting the lower and upper lids occasionally until the chemical is removed. Get **MEDICAL** attention immediately if irritation persists.

**INHALATION:** If a person breathes in large amounts of product mist, move the person to fresh air. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

**INGESTION:** Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Get medical attention immediately.

## 5. Fire Fighting Measures

Suitable Extinguishing Media:

Carbon dioxide, dry powder, foam, water spray

Unsuitable Extinguishing Media:

None known

**Hazardous Combustion Products:** 

Carbon & Nitrogen Oxides

Hazards During Fire-fighting:

Standard procedure for chemical fires

Cool fire-exposed containers with water

Spills can cause very slippery floor conditions

Restrict pedestrian & vehicular traffic in area where slip hazard may exist.

Protective Equipment for Fire-fighting:

Wear self contained breathing apparatus and chemical-protective clothing.

#### 6. Accidental Release Measures

Personal Precautions:

Spills are very slippery. Restrict pedestrian & vehicular traffic in area where slip hazard may exist.

Cleanup:

Pick up with inert absorbent material (sand, earth, etc.)

Scoop into marked containers for disposal as chemical waste

Wear suitable protective equipment

Do not release into the environment



MSDS Date: 8/10/10

AS-2121

MSDS No: 102222121-6

NOTE: DO NOT wash or pour AS-2121 into any surface waters or streams or directly into sewers.

### 7. Handling and Storage

#### Handling:

General advice: As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation. Ensure adequate ventilation. Clean up spills promptly.

#### Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid extremes of temperatures

For Industrial Use Only

## 8. Exposure Controls/Personal Protection

#### **Exposure Guidelines:**

Work only in well ventilated areas. Do not breathe vapors or mists.

### Personal Protective Equipment:

Respiratory: Wear a NIOAH-certified respirator as necessary.

Eye Protection: Use tightly fitting safety goggles (chemical goggles).

Body Protection: Wear chemical resistant gloves and protective clothing.

General safety & hygiene measures: There are no OSHA or ACGIH exposure guidelines available for component(s) in this product. Eye wash stations and safety showers should be available in the immediate work areas. Select additional protective equipment based upon potential for

exposure.

### 9. Physical & Chemical Properties

Color straw yellow

Form liquid State of Matter liquid

Odor slightly amine Specific Gravity  $1.04 \pm 0.02$ 

pH value ~ 6

Evaporation Rate not tested Flash Point >100°C Self Ignition Temperature not tested

Melting Point  $<0^{\circ}\text{C}$ Boiling Point  $>100^{\circ}\text{C}$ Density  $\sim 1.0 \text{ g/cm}^3$ 

Vapor Density not tested

Partitioning coefficient

n-octanol/water (log Pow) not applicable
Viscosity, dynamic not tested
% Volatiles not determined

Solubility in water miscible



MSDS Date: 8/10/10

AS-2121

MSDS No: 102222121-6

Solubility in other solvents

not tested

# 10. Stability and Reactivity

Stability:

Stable

Conditions to avoid:

Avoid temperature extremes, especially frost and freezing conditions

Substances to avoid:

Strong oxidizing agents, (may degrade polymer); Incompatible with aluminum

Possibility of Hazardous Reactions:

No hazardous reactions known

Hazardous decomposition products:

No decomposition expected under normal storage conditions.

## 11. Toxicology Information

Acute Oral Toxicity:

Acute Inhalation Toxicity:

Acute Dermal Toxicity:

Not determined
Skin Irritation:

Not determined
Eye Irritation:

Not determined
Skin Sensitization:

Not determined
Sub Acute Toxicity:

Not determined

Sub Chronic Toxicity:

Active polymer – a 6 month study with rats at doses of 1000 mg/kg/day showed cellular effects in kidneys and lungs. Both test concentrations also reduced body weight gain. No Effect

Concentration < 1000 mg/kg/day.

Chronic Toxicity: Not determined Genetic Toxicity: Not determined

Carcinogenicity:

None of the components in this product at concentrations greater than 0.1% are listed by IARC,

NTP, OSHA or ACGIH as a carcinogen.

Reproductive Toxicity: Not determined Developmental Toxicity/Teratogenicity: Not determined

### 12. Ecological Information

Toxicity to Fish:

Menidia beryline/96 h/LC50: >10,000 mg/l (under static conditions)

Oncorhynchus mykiss/96 h/LC50: 18 mg/l (under static conditions in the presence

of humic acid)

Toxicity to Invertebrates:

Daphnia Magna/96 h/LC50: 38 mg/l (under static conditions) Mysidopsis bahia/96 h/LC50: 290 mg/l (under static conditions)



MSDS Date: 8/10/10

AS-2121

MSDS No: 102222121-6

Toxicity to Aquatic Plants:

Toxicity to microorganisms:

Biodegradation:

Biochemical Oxygen Demand (BOD):

Chemical Oxygen Demand (COD):

Not tested

Not tested

Not tested

### 13. Disposal Considerations

Waste Disposal:

Dispose in accordance with national, state and local regulations.

RCRA: Not a hazardous waste under RCRA (40CFR 261).

## 14. Transport Information

U.S. Department of Transportation:

Not classified as a dangerous good under transport regulations by highway or air.

Not classified as a dangerous good under IATA (International Air Transport Association)

Not classified as a dangerous good under IMDG (International Maritime Dangerous Goods Code)

Proper Shipping Name Resin Compound, Non - Regulated Liquid Polymer

Hazard Class Not Regulated Identification Number NMFC 46030

Label Required None

## 15. Regulatory Information

## Federal Regulations

SARA Section 311/312 Hazard Communication Standard:

Acute: Y Fire: N Chronic: N Reactivity: N

Sudden Release of Pressure: N

SARA Section 313 Toxic Chemicals List:

This product does not contain any components reportable under Sec 313 (40CFR 372)

**OSHA Hazard Category:** 

This material is classified as hazardous under OSHA regulations.

Toxic Substances Control Act (TSCA) Significant New Use Rule:

This product is not subject to the Significant New Use Rule.

Toxic Substances Control Act (TSCA) Section 5(e) Consent Orders:

This product is not subject to the Section 5(e) Consent Orders



MSDS Date: 8/10/10

AS-2121

MSDS No: 102222121-6

Toxic Substances Control Act (TSCA) Section 5 (f):

This product is not subject to Section 5 (f) 6 (a) rule.

Toxic Substances Control Act (TSCA) 12(b) Export Notification:

No components listed.

Clean Air Act - Hazardous Air Pollutants (HAP):

Chemical CAS Notification Formaldehyde 50-00-0 Listed

Clean Air Act 602 – Ozone Depleting Substances (ODS):

This product neither contains nor was manufactured with a class I or Class II ozone depleting substance, as defined by the US Clear Air Act Section 602.

Clean Water Act – Priority Pollutants (PP):

This product does not contain any priority pollutant listed under the US Clean Water Act Section 307(2)(1) Priority Pollutant List (40 CFR 401.15).

Pennsylvania Right to Know:

This product contains the following component(s) which are subject to the PA Right to Know disclosure requirement.

Chemical CAS Notification
Formaldehyde 50-00-0 Listed
Formaldehyde 50-00-0 Special Hazard

Formaldehyde 50-00-0 Environmental Hazard

California Proposition 65 – Chemicals Known to the State to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer.

Chemical CAS Notification
Formaldehyde 50-00-0 Carcinogenic

**International Regulations:** 

**Chemical Weapons Convention:** 

This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

#### 16. Other Information

Disclaimer: The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied is made with respect to such data or information. The use is responsible for determining whether the product is suitable for its intended conditions of use.

MSDS History:

This is a new MSDS: Revised to ANSI Z400.1-2004.

Section Changes: 3) Product Identification lists all components

End MSDS ID: 102222121-6 Reviewed: 8/10/10 JMJ