

MSDS Date: 11/30/12

123343098-3

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name: AS-3098** 

Synonyms: Coagulant Aid

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

Certified to a Maximum Use for Potable Water of 252 mg/L

**Customer Information Number:** 440-933-9442

Emergency 24-Hour Health/Environmental Phone: 216-973-6118

## 2. CHEMICAL COMPOSITION

Component CAS Number Exposure TWA/Ceiling

Polyaluminum Hydroxychlorosulfate 39290-78-3 2 mg/m<sup>3</sup> for soluble salts, as Aluminum

## 3. HAZARDS IDENTIFICATION

## **EMERGENCY OVERVIEW**

Clear light brown liquid, Halogen odor

WARNING! Respiratory tract burns, skin burns, eye burns, mucous membrane burns

HMIS Rating: Health - 2 Fire - 0 Reactivity - 0 0- Minimal; 1- Slight Hazard; 2- Moderate Hazard;

3- Serious Hazard: 4-Severe Hazard

**TARGET ORGANS -** Eyes, Skin, Respiratory, Mucous membranes

ROUTES OF ENTRY INTO BODY - Inhalation, Ingestion, Skin absorption, Skin or Eye Contact

**SIGNS AND SYMPTOMS OF EXPOSURE** – May cause irritation to the respiratory tract, coughing, choking, pain, and possibly burns to the mucous membranes. In some cases may cause pulmonary edema including tightness in the chest, dyspnea, and dizziness. Direct contact may cause irritation, pain, and possibly burns. Swallowing may result in difficult speech, burns to the esophagus and gastrointestinal tract edema of the epiglottis.

**OSHA Hazard Communication** This material is hazardous according to 29 CFR 1910.1200



MSDS Date: 11/30/12

123343098-3

#### 4. FIRST AID MEASURES

EYE CONTACT: If material gets into eyes, flush the eyes with large amounts of water for at least 30 minutes, lifting the lower and upper lids occasionally. Get medical attention immediately, preferably from an ophthalmologist. Contact lenses should not be worn when working with this substance or any other chemical. If contact lenses were worn, remove from the eye after the first 5 minutes of flushing.

SKIN CONTACT: Skin that becomes contaminated should be washed or showered for 30 minutes with soap and water to remove any chemical from skin. Get medical attention immediately. Contaminated clothing should be removed and laundered. Clothing that cannot be decontaminated, like leather boots and belts should be disposed of properly.

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 is possible.

INGESTION: If a person swallows this product drink plenty of water. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: For inhalation, consider oxygen.

Avoid gastric lavage or emesis.

#### 5. FIRE FIGHTING MEASURES

Flash Point and Method: Not Applicable

#### **EXTINGUISHING MEDIA**

This product is a negligible fire hazard. Use agents suitable for surrounding fire such as water in flooding quantities as a fog, carbon dioxide  $(CO_2)$ , dry chemical extinguishers, or foam.

### FIRE FIGHTING MEASURES

Keep upwind. Keep out of low areas. Avoid breathing vapors and fumes from this material. Avoid bodily contact with the material. Move containers from the fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Use extinguishing agents appropriate for the surrounding fire. Apply water from a protected location or from a safe distance. Keep material out of water sources and sewers.

#### FIRE FIGHTING EQUIPMENT

As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear including boots, protective gloves, and gas-tight goggles. Regular Fire Fighter's gear is inadequate.



MSDS Date: 11/30/12

123343098-3

#### 6. ACCIDENTAL RELEASE MEASURES

Persons not wearing protective equipment and clothing should be restricted from spill areas until clean up has been completed. If AS-3098 is spilled, take the following steps:

- 1. Ventilate the spill area.
- 2. For small spills or leaks: Stop the leak if possible without personal risk. Neutralize with alkali such as soda ash, lime, or limestone. Adequate ventilation is mandatory.
- 3. For larger spills: Dike the area around the spill to prevent spreading, collect in an approved liquid vacuum if possible. For any residual material follow step 2.
- 4. Discard any vacuumed material and the absorbent material in accordance to all FEDERAL, STATE AND LOCAL REGULATIONS.

NOTE: DO NOT wash or pour AS-3098 into any surface waters or streams or directly into sewers.

## 7. HANDLING AND STORAGE

#### **HANDLING**

Use with adequate ventilation. Avoid breathing mists or aerosols. Wear appropriate protective equipment (See Section 8). Practice good industrial hygiene. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking.

#### **STORAGE**

Keep AS-3098 in a cool, dry place. Keep in tightly sealed containers with labels visible. Store between 10°C - 30°C. Keep separated from incompatible substances. Product will slowly corrode iron, brass, copper, aluminum, and mild steel.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **ENGINEERING CONTROLS**

Use in areas with adequate ventilation.

#### PERSONAL PROTECTION

Respirator: Necessary with insufficient or improper engineering controls allow the threshold limit to

be exceeded or if sensitivity has developed. Wear a NIOSH approved respirator with dust/mist cartridges. Selection of respiratory equipment must be in accordance with

OSHA 1910.134 and good industrial hygiene practice.

Eye Protection: Wear chemical goggles and a face shield

Gloves: Wear rubber or neoprene gloves and check with glove manufacturers'

recommendations

Clothing: Normal working clothing is usually adequate, but wear a rubber apron in areas where

splashing may occur

Other: Eye wash and safety showers should be in immediate work area, practice good

industrial hygiene

Recommendations: ESCAPE & FIRE FIGHTING-Self-contained breathing apparatus with a face-piece operated in pressure demand or other positive-pressure mode.



# Material Safety Data Sheet MSDS Date: 11/30/12

123343098-3

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE** Clear light brown liquid

Halogen **ODOR** 

110°C (230°F) **BOILING POINT** 

< -6.7°C (20°F) Estimated FREEZING POINT

FLASH POINT Not applicable VAPOR PRESSURE Same as water VAPOR DENSITY Same as water SPECIFIC GRAVITY  $1.230 \pm 0.025$ PRODUCT pH  $2.5 \pm 1.0$ 

# 10. STABILITY AND REACTIVITY

100%

Stability Stable under normal temperatures and pressures.

Hazardous Polymerization Will not occur

SOLUBILITY IN WATER

Incompatibilities Alkalis and oxidizing agents. Reacts with zinc and aluminum to form

hydrogen gas

**Hazardous Decomposition Products** Sodium monoxide

## 11.TOXICOLOGICAL INFORMATION

**HEALTH HAZARDS** 

Ingestion may cause irritation or burns of the mucous membranes, esophagus and stomach. Ingestion:

May cause nausea, vomiting and diarrhea. Large amounts may cause liver and kidney effects.

Inhalation Inhalation of mists may cause irritation of the nose throat and upper respiratory tract.

Eye May cause moderate to severe irritation with pain and tearing.

Skin May cause irritation.

Sensitization This material is not known to cause sensitization.

Chronic None currently known.

None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or Carcinogenicity

OSHA.

Mutagenicity None currently known.

Medical Conditions Aggravated by Exposure: Employees with pre-existing eye, skin and respiratory disease may be at increased risk from exposure.

Acute Toxicity Values:

No data available.



MSDS Date: 11/30/12

123343098-3

### 12. ECOLOGICAL INFORAMTION

**TOXICITY TO AQUATIC INVERTEBRATES** 

48 hr. EC50 Daphnia magna 20 mgL

### 13. DISPOSAL CONSIDERATIONS

#### PRODUCT DISPOSAL

Prohibition - Do not discharge to sewer

Destruction – Dispose in accordance with federal, state, and local regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262, this product may be RCRA regulated as D002 due to corrosivity

#### **USED PACKAGING**

Decontamination – Empty packaging thoroughly rinse with water before disposal Destruction – Dispose in accordance with federal, state, and local regulations. Various options may be available

# 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME HAZARD CLASS IDENTIFICATION NUMBER PACKAGING GROUP LABEL REQUIRED Industrial Process Water Treating Not DOT Regulated NMFC 50227 Sub 1 Class 60 NA NA

### 15. REGULATORY INFORMATION

### **Federal Regulations**

## OSHA HAZARD COMMUNICATION STANDARD (26 CFR 1910.1200)

[X] Hazardous [] Non-Hazardous

None of the chemicals in this product are considered highly hazardous by OSHA.

### CERCLA/SUPERFUND (40 CFR 117, Section 302)

No components listed

# SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)

This product does not contain any chemicals subject to the reporting requirements of 40 CFR 355.

# SARA HAZARD CATEGORIES (40 CFR 370, Sections 311, 312)

[X] Acute [ ] Chronic [ ] Fire [ ] Pressure [ ] Reactive [ ] None

# SARA TOXIC SUBSTANCES (40 CFR 372, Section 313)

No components listed



MSDS Date: 11/30/12

123343098-3

## US TOXIC SUBSTANCES CONTROL ACT/INVENTORY STATUS (TSCA)

All components are listed

# RCRA STATUS (40 CFR Ch. 1, Subpart C, Section 261)

May be classified as D002 due to corrosivity

#### NTP, IARC, OSHA, & ACGIH STATUS

None of the components are listed

## REPORTABLE QUANTITY (RQ) (49 CFR Subchapter C, Section 172.101, Appendix A)

This material does not have a reportable quantity

## **State Regulations**

#### **NEW JERSEY RIGHT-TO-KNOW INFORMATION:**

Component	CAS Number
Polyaluminum Hydroxychlorosulfate	39290-78-3
1,2-Ethanediamine, polymer with (chloromethyl) oxirane and N-	42751-79-1
methylmethanamine	

#### **CALIFORNIA PROPOSITION 65:**

This product does not contain toxic chemical(s) currently on the California list of known carcinogens and reproductive toxins

#### NONE

Pursuant to the California Safe Drinking Water and Toxic Enforcement Act of 1986 (proposition 65), this information is provided. This law requires that "clear and reasonable warning "be provided to any individual, knowingly or intentionally exposed to any substances identified by the state as being cancer or reproductive hazards unless, it can be shown that the exposure poses "no significant risk". Based on available data, the following chemicals listed by Proposition 65 may be present in this product:

### **16.OTHER INFORMATION**

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification. Before using any product, read its label carefully and completely.

Revision 3 / Supersedes 10/26/12 / JMJ Revisions: Section12