



# Material Safety Data Sheet

MSDS Date: 9/12/12  
122553030-9

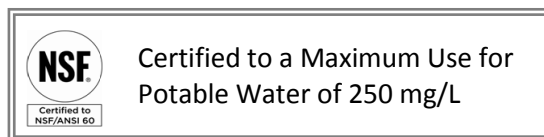
## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name: AS-3030**

**Synonyms:** Coagulant Aid

**Manufacturer/Supplier:**

Applied Specialties, Inc.  
33555 Pin Oak Parkway  
Avon Lake, OH 44012



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

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

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Clear colorless to amber liquid, Odorless

**DANGER!** Prolonged contact with mists may cause eye, skin, and respiratory irritation. Do not inhale vapors or mists. Under fire conditions, possible formation of hazardous chlorine compounds may occur.

**HMIS –ratings (0 – 4)**

HEALTH	0
FIRE	0
REACTIVITY	0

- 0 Minimal
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard

### OSHA Hazard Communication

This material is hazardous according to  
29 CFR 1910.1200

**TARGET ORGANS** – *Acute:* Eyes, Skin, Gastrointestinal, Respiratory, *Chronic:* Liver, Kidney

**ROUTES OF ENTRY INTO BODY** – Skin, Eye, Inhalation, Ingestion

**SIGNS AND SYMPTOMS OF EXPOSURE** - Eye Burns, Tearing or Blurry Vision, Redness, Skin Burns, Nausea, Vomiting, or Diarrhea and Weakness, Respiratory Irritation.

## 2. CHEMICAL COMPOSITION

Component	CAS Number	Wt%	TWA/Ceiling
Aluminum chloride hydroxide sulfate	39290-78-3	<50	2 mg/m <sup>3</sup> (Al) ACGIH

Chemical identity of some ingredients may be withheld as confidential as permitted by 29 CFR 1910.1200 and various State right to know laws.



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

## 5. FIRE FIGHTING MEASURES

Flash Point and Method: Not Applicable

### EXTINGUISHING MEDIA

This product is not flammable. Use agents suitable for surrounding fire such as water in flooding quantities as a fog, carbon dioxide (CO<sub>2</sub>), 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. For large fires: Flood with fine water spray. Reduce vapors with water spray. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material

### 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.

## 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-3030 is spilled, take the following steps:

1. Ventilate the spill area, dike to prevent spreading
2. Neutralize with soda ash and collect with an absorbent material or approved liquid vacuum.
3. Discard any vacuumed material and the absorbent material in accordance to all FEDERAL, STATE AND LOCAL REGULATIONS, see Section 13.

NOTE: DO NOT wash or pour AS-3030 into any surface waters or streams or directly into sewers.



## 7. HANDLING AND STORAGE

### HANDLING

Avoid contact with the eyes. Avoid prolonged or repeated skin contact. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Do not reuse containers. Empty containers retain product residues and can be hazardous. Follow all MSDS precautions when handling empty containers.

### STORAGE

Store in a cool, dry place and in tightly sealed containers when not in use. Storage area should be well ventilated. Keep the container labels visible. Protect from physical damage. Avoid temperature extremes; preferably keep between 10-30°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

### PERSONAL PROTECTION

**Respirator:** In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Eye Protection:** Wear chemical safety goggles where splashing is present

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

**Clothing:** Impervious coveralls, apron, and boots as needed to prevent contact.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colorless to clear amber liquid
ODOR	Slight odor
BOILING POINT	Approximately 102°C @ 760 mm Hg
FREEZING POINT	-12 ± 2°C
VAPOR DENSITY IN AIR	1.3 (air = 1)
VAPOR PRESSURE	17 mm Hg @ 20°C
SPECIFIC GRAVITY	1.205 ± 0.025
PRODUCT pH (neat)	2.6 ± 1.0
SOLUBILITY IN WATER	Complete



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## 10. STABILITY AND REACTIVITY

Stability	Stable under normal temperatures and pressures
Conditions to avoid	Avoid temperature extremes and open systems, minimize vapor release
Hazardous polymerization	Will not occur
Incompatibilities	Reacts with zinc and aluminum to form hydrogen gas. Strong alkalis may generate heat, splattering or boiling and toxic vapors.
Hazardous decomposition products	Under fire conditions, HCl gas may be released

## 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY	LD <sub>50</sub> : 12.8 g/kg (rat)
ACUTE INTRAPERITONEAL TOXICITY	LD <sub>50</sub> : 1.9 g/kg (rat)
CARCINOGENICITY	Not considered carcinogenic by NTP, IARC, or OSHA
IRRITANCY OF PRODUCT	Moderate skin and eye
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	None known

## 12. ECOLOGICAL INFORMATION

TOTAL ORGANIC CARBON (TOC)	<2.0 ppm
DAPHNIA MAGNA	48 HR ACUTE LC50 : 1400 ppm
RAINBOW TROUT	96 HR ACUTE LC50 : 1555 ppm
FATHEAD MINNOW	96 HR ACUTE LC50 : 870 ppm
	NOEC: 312 ppm    LOEC: 625 ppm
CERIODAPHNIA DUBIA	48 HR ACUTE LC50 : 2000 ppm
	NOEC: 150 ppm    LOEC: 300 ppm

## 13. DISPOSAL CONSIDERATIONS

### PRODUCT RESIDUES

Prohibition – Do not discharge to sewer

Disposal – Dispose in accordance with federal, state, and local regulations. Various options may be available.

### USED PACKAGING

Decontamination: Thoroughly rinse with water before disposal, use rinsate in process.

Dispose of in a licensed facility according to federal, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME	Corrosive Liquid, Acidic, Inorganic, n.o.s. (Aluminum chloride hydroxide sulfate)
HAZARD CLASS	8
IDENTIFICATION NUMBER	UN3264
PACKAGING GROUP	III
LABEL REQUIRED	CORROSIVE



## 15. REGULATORY INFORMATION

### Federal Regulations

#### **OSHA HAZARD COMMUNICATION STANDARD (26 CFR 1910.1200)**

[X] Hazardous [ ] Non-Hazardous

#### **OSHA HIGHLY HAZARDOUS MATERIALS (29 CFR 1910.119 APP A)**

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

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

All components are listed

#### **RCRA STATUS**

Not regulated

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

None of the components are listed

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

None of the components are listed

### State Regulations

#### **PENNSYLVANIA, NEW JERSEY, and MASSACHUSETTS RIGHT-TO-KNOW INFORMATION:**

Component	CAS Number	PA Notification
Aluminum chloride hydroxide sulfate	39290-78-3	Not Listed
Water	7732-18-5	Not Listed

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

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

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:  
NO SUBSTANCES FOUND TO BE PRESENT AT DETECTABLE LEVELS



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## 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 9 / Supersedes 7/27/10 / JMJ**

Revisions: ANSI format, all sections