

# SAFETY DATA SHEET

## Ammonium Sulfide, 1% AQ

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Ammonium Sulfide, 1% AQ

**Catalog Numbers:** SO-694

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### GHS Classifications

##### HEALTH HAZARDS

H302-Acute Oral Toxicity: 4

H312-Acute Dermal Toxicity: 4

H332-Acute Inhalation toxicity: 4

H316-Skin Corrosion/Skin Irritation: 3

H320-Eye damage/Irritation: 2B

H317-Skin Dermal Sensitization: 1

##### PHYSICAL HAZARDS

##### ENVIRONMENTAL HAZARDS

**Aquatic acute environmental Hazards:** Not classified

**Chronic environmental Hazards:** Not classified

**Pictograms or Hazard symbols and Hazard statement.**



Warning: Causes skin irritation.  
Maybe harmful if swallowed.  
Harmful if inhaled.

## **Precautionary Statement**

### H302

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink, or smoke when using this product.

**P301 + P312** If swallowed, call a physician if you feel unwell.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**P330** Rinse mouth.

### H312

**P280** Wear protective gloves, clothing, and eye and face protection.

**P302 + P352** If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

**P312** Call a physician if you feel unwell

**P361 + P363** Take off immediately all contaminated clothing and wash it before reuse.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H332

**P261** Avoid breathing fumes/mist/vapors.

**P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

1 Use only outdoors or in a well-ventilated area.

**P312** Call a physician if you feel unwell.

### H316

**P332 + P313** If skin irritation occurs, get medical advice/attention.

### H320

**P264** Wash thoroughly after handling.

**P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

### H334

**P261** Avoid breathing fumes/mist/vapors.

**P285** In case of inadequate ventilation, wear respiratory protection.

**P304+P341 IF INHALED:** if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**P342+P311** if experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H317

**P272** Contaminated work clothing should not be allowed out of the work place.

**P333+P313** IF ON SKIN: Wash with plenty of soap and water.

**P363** Wash contaminated clothing before reuse.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
12135-76-1	Ammonium Sulfide	1 w/v
7732-18-5	Water	100 v/v

### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**NFPA Rating:** (estimated) Health: 3; Flammability: 1; Instability: 1

### Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**

Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

### Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at Room temperature. Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** clear

**Odor:** Ammonia

**PH:** N/A

**Vapor Pressure:** N/A

**Vapor Density/A**

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** N/A

**Solubility:** N/A

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

**Conditions to Avoid:** Heat, freezing.

**Incompatibilities with Other Materials:** Chromic Acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides, and phosphates.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:**

**LD50/LC50:**

CAS#12135-76-1

Not Classified

**Carcinogenicity:**

CAS#12135-76-1 Not classified

## Section 12 - Ecological Information

**Ecotoxicity:**

**CAS#**12135-76-1

**Environmental:** When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

**Physical:** No information available.

**Other:** No information available.

## Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

## Section 14 – Transport Information

**DOT**

Hazard class: 8

Identification number: UN2683

Packing Group: III

Proper Shipping Name (Technical Name): Ammonium Sulfide Solution

Label: 6.1

## Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**European/International Regulations**  
**European Labeling in Accordance with EC Directives**

**Risk Phrases:**

R22 Harmful by inhalation, in contact with skin and if swallowed  
R36/38 Irritating to eyes and skin

**Safety Phrases:**

S20/21 When using do not eat, drink or smoke  
S2 Keep out of the reach of children.  
S 7 Keep container tightly closed.  
S 9 Keep container in a well-ventilated place

Section 16 - Additional Information
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**MSDS Creation Date:** 10/15/12

**Revision #1. YM 3/31/2014**

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