

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 68.00

Revision Date: March 21, 2014

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Ammonium Sulfide

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Skin and eye damage, corrosion or irritation (Category 1, 1B). Causes severe skin burns and eye damage (H314+H318). Do not breathe mist, vapors or spray (P260).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name   | CAS Number | Formula                           | Formula Weight | Concentration |
|------------------|------------|-----------------------------------|----------------|---------------|
| Ammonium sulfide | 12135-76-1 | (NH <sub>4</sub> ) <sub>2</sub> S | 68.1           | 20%           |
| Water            | 7732-18-5  | H <sub>2</sub> O                  | 18.00          | 80%           |

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).

**If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

**If swallowed:** Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

### SECTION 5 — FIRE FIGHTING MEASURES

Class IC flammable liquid.

Flash point: 32 °C Flammable limits: Lower: 4% Upper: 46%

**In case of fire:** Use a tri-class dry chemical fire extinguisher (P370+P378).

**NFPA CODE**  
None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #5. Store with sulfides, phosphides, carbides and nitrides. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor™ can. Keep container tightly closed (P233). Keep cool (P235). Ground or bond container and receiving equipment (P240). Use explosion-proof electrical and ventilating equipment (P241). Use only non-sparking tools (P242).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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|   |  |
|---|--|
| Dark liquid: 22% sulfur, 8% ammonia, amber color  | Specific gravity: Light: 1.01 Dark: 1.06 |
| Light liquid: 8% sulfur, 8% ammonia, yellow color | Vapor density: 2.3                       |
| Soluble: Water, alcohol, and alkalis              | Vapor pressure: 450 mm                   |

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong oxidizers, acids, bases, aluminum, zinc, and copper.

Avoid heat.

Shelf life: Good, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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|--|--------------------------------------|
| Acute effects: Toxic, corrosive, nausea, headache, and vomiting. | ORL-RAT LD <sub>50</sub> : 152 mg/kg |
| Chronic effects: N.A.  | IHL-RAT LC <sub>50</sub> : N.A.      |
| Target organs: N.A.  | SKN-RBT LD <sub>50</sub> : N.A.      |

N.A. = Not available, not all health aspects of this substance have been fully investigated.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #23 is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Ammonium Sulfide Solution. Hazard class: 8, Corrosive, Poison, Flammable Liquid. UN number: UN2683.

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (235-223-4), RCRA code D001, D003.

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**SECTION 16 — OTHER INFORMATION**

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

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