



THATCHER COMPANY MATERIAL SAFETY DATA SHEET

PRODUCT: AMMONIUM THIOSULFATE SOLUTION

Page 1 of 3

MSDS Date: February 2, 2005  
Emergency Contact: 1-800-424-9300

**SECTION I**

**PRODUCT NAME:** Ammonium Thiosulfate Solution 57-59%

**CHEMICAL FAMILY:** Thiosulfates

**FORMULA:** (NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

**CAS NUMBER:** 7783-18-8

**DOT SHIPPING INFORMATION:** Not DOT Regulated

**SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

**SECTION III - PHYSICAL DATA**

**BOILING POINT (F):** Approx. 215

**SPECIFIC GRAVITY:** 1.32 @ 15°C

**VAPOR PRESSURE (mm Hg):** Essentially water

**% VOLATILE, BY VOLUME:** 40%

**VAPOR DENSITY (air = 1):** Essentially water

**EVAPORATION RATE:** Unknown

**SOLUBILITY IN WATER:** Complete

**APPEARANCE AND ODOR:** Clear, colorless solution with a characteristic, pungent odor.

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT:** Nonflammable

**FLAMMABLE LIMITS:**

Lel: N/A Uel: N/A

**EXTINGUISHING MEDIA:**

Use any.

**SPECIAL FIRE-FIGHTING PROCEDURES:**

None.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None.



---

---

**SECTION V - REACTIVITY DATA**

**STABILITY:**

Stable

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**CONDITIONS OR MATERIALS TO AVOID:**

Acids, strong oxidizers, magnesium, aluminum and heat.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Sulfur oxides if heated or mixed with any of the above materials.

**SECTION VI - HEALTH HAZARD DATA**

**NFPA HAZARDOUS RATING:** Health = 1 Flammability = 0 Reactivity = 1

**CARCINOGENIC LISTING:**

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

**ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:**

**Contact:** Can cause irritation to skin and eyes.

**Ingestion:** Irritating to the gastrointestinal tract; large amounts can act as a laxative.

**STATEMENT OF PRACTICAL TREATMENT:**

**Contact:** Flush exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes and get medical attention.

**Ingestion:** Give several glasses of water or milk. **Do not** induce vomiting. Call a physician immediately.

**SECTION VII - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:**

Avoid contact with skin and eyes. Do not take internally. Wash thoroughly after handling.

**STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:**

Wear safety equipment. Dike spill and recover into drums. Flush residue to the sewer with large amounts of water.

**WASTE DISPOSAL METHOD:**

Dispose of in landfill or other disposal site. Comply with all local, state and federal regulations.



**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:**

None required.

**VENTILATION:**

None required.

**EYE PROTECTION:**

Goggles.

**SKIN PROTECTION:**

Rubber gloves.

**OTHER PROTECTIVE EQUIPMENT:**

As needed to prevent contact with skin and eyes.

**ACGIH** = American Conference of Governmental Industrial Hygienists

**CL** = Ceiling Level

**IARC** = International Agency for Research on Cancer: Monographs

**OSHA** = Occupational Safety and Health Administration

**N/A** = Not Applicable

**NTP** = National Toxicology Program: Annual Report on Carcinogens

**PEL** = Permissible Exposure Level (OSHA)

**TLV** = Threshold Limit Value (ACGIH)

**TWA** = Time Weighted Average over 8 Hours

**STEL** = Short Term Exposure Limit (ACGIH)

**ND** = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.