

# Safety Data Sheet

## ATS=

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 10/25/2011

Revision date: 9/24/2024

### SECTION 1: Identification

#### Identification

Product Name : ATS=  
Product code : SO0260  
CAS-No. : MIXTURE  
Synonyms : Ammonium thiosulfate; Ammonium hyposulfite; Thiosulfuric acid, diammonium salt  
Recommended use : No additional information available  
Restrictions on use : No additional information available

#### Supplier

Hydrite Chemical Co.  
17385 Golf Parkway  
Brookfield, WI, 53045  
T 262-792-1450

#### Emergency telephone number

EMERGENCY RESPONSE NUMBERS:  
24 Hour Emergency #: (414) 277-1311  
CHEMTREC Emergency #: (800) 424-9300

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

##### GHS US classification

This product is not classified as defined by OSHA 29 CFR 1910.1200.

#### GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### Hazards not otherwise classified

Hazards not otherwise classified : No additional information available

#### Unknown acute toxicity (GHS US)

Unknown acute toxicity (GHS US) : 4.28% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
60.41% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
60.41% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

### SECTION 3: Composition/Information on ingredients

#### Substances/ Mixtures

Name	Product identifier	%	GHS US classification
AMMONIUM THIOSULFATE	CAS-No.: 7783-18-8	~ 60	Acute Tox. 4 (Oral), H302

ATS=

Product code: SO0260

Name	Product identifier	%	GHS US classification
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Note: Any chemical identity and/or exact percentage not expressly stated is being withheld as a trade secret or is due to batch variation.

While this material is not classified as a health hazard under OSHA regulations, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

## SECTION 4: First-aid measures

### Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.
First-aid measures after skin contact	: If on skin: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention.
First-aid measures after eye contact	: If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.
First-aid measures after ingestion	: If swallowed: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

### Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause mild irritation. Mists may irritate: respiratory tract, nose, throat.
Symptoms/effects after skin contact	: No hazard expected under normal use. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Symptoms/effects after eye contact	: May cause moderate irritation, including burning sensation, tearing, redness or swelling.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Immediate medical attention and special treatment, if necessary	: No specific antidote known. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## SECTION 5: Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: No additional information available

### Specific hazards arising from the chemical

Fire hazard	: No direct fire hazard.
Explosion hazard	: No direct explosion hazard.
Reactivity in case of fire	: Heating may cause the release of ammonia vapors. Heating to dryness may cause the release of ammonia, ammonium sulfate, sulfur and oxides of sulfur. NH <sub>3</sub> (16-25%) may form flammable mixtures with air. If heated beyond dryness, some hydrogen sulfide gas may be given off. Hydrogen sulfide also can burn.
Hazardous decomposition products	: Toxic fumes may be released. Ammonia (as NH <sub>3</sub> ). Sulfur oxides (SO <sub>x</sub> ). Hydrogen sulfide. Sulfur. Ammonium sulfate.
Firefighting instructions	: Evacuate personnel to a safe area. Do not enter fire area without proper protective equipment, including respiratory protection. Stay upwind/keep distance from source. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Do not exceed the occupational exposure limits (OEL).
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate spillage area.

### Environmental precautions

Environmental precautions	: Avoid release to the environment. Notify authorities if product enters sewers or public waters.
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### Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Soak up residue with inert absorbent material. Place in non-leaking containers for immediate disposal. Flush remaining area with plenty of water to remove trace residue and dispose of properly.
Other information	: Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### Precautions for safe handling

Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust or mist formation. Avoid breathing dust/fume/gas/mist/vapors/spray. Do NOT taste or swallow.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

### Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep in a cool, well-ventilated place away from heat. Avoid extremes of temperature. Do not allow product to dry out.
Incompatible materials	: Keep away from incompatibles. Refer to Section 10 on Incompatible Materials.
Storage temperature	: No additional information available
Heat-ignition	: Keep away from all sources of ignition. Keep out of direct sunlight.
Packaging materials	: Keep only in the original container. Do not store in unlabeled or mislabeled containers. Keep container tightly closed. Store in a secure manner.

## SECTION 8: Exposure controls/personal protection

### Control parameters

Component	ACGIH	OSHA
AMMONIUM THIOSULFATE	No data available	No data available

### Appropriate engineering controls

Appropriate engineering controls	: General room ventilation and local exhaust are required. Local exhaust ventilation is recommended when vapors, mists, or dusts can be released. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist.
Environmental exposure controls	: Avoid release to the environment.

ATS=

Product code: SO0260

### Individual protection measures/Personal protective equipment

Personal protective equipment	: Wear recommended personal protective equipment. Provide readily accessible eye wash stations and safety showers.
Hand protection	: Protective gloves. Chemical-resistant. Impervious. Neoprene or nitrile rubber gloves
Eye protection	: Wear chemical safety goggles and a full face shield while handling this product.
Skin and body protection	: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Rubber boots. Rubber Apron
Respiratory protection	: None required under normal use. If mist or spray is present, wear: NIOSH-Approved respirator for mists. If through heating, excessive ammonia gas is given off, use chemical cartridge respirator with cartridge specific for ammonia, or self-contained breathing apparatus, or supplied-air respirator. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.
Other information	: Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use. Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless to amber.
Odor	: Slight ammonia odor.
Odor threshold	: No data available
pH	: ~ 8
Melting point	: Not applicable
Freezing point	: 30 °F
Crystallization (Salt Out) Temperature	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.3225 @ 25 °C
Solubility	: Complete.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Bulk density	: 177.8 gal/ton

## SECTION 10: Stability and reactivity

### Information on stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.

ATS=

Product code: SO0260

Conditions to avoid	: Keep away from heat, sparks and flame. Avoid excessive heat. Heat accelerates the normal evolution of ammonia. Do not allow product to dry out. Heating to dryness and further yields toxic hydrogen sulfide and other gases.
Incompatible materials	: acids. alkalies. strong oxidizing agents. copper or copper alloys. zinc. zinc alloys. water-reactive materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

### Numerical measures of toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50
AMMONIUM THIOSULFATE	Rat: 1950 mg/kg	Rabbit: > 2000 mg/kg	Rat: > 2.6 mg/l air

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Skin and eye contact. Ingestion. Inhalation.
Symptoms/effects after inhalation	: May cause mild irritation. Mists may irritate: respiratory tract. nose. throat.
Symptoms/effects after skin contact	: No hazard expected under normal use. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Symptoms/effects after eye contact	: May cause moderate irritation, including burning sensation, tearing, redness or swelling.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Medical Conditions Aggravated by Exposure	: None known.
Other information	: No additional information available

## SECTION 12: Ecological information

### Toxicity

No additional information available

### Persistence and degradability

No additional information available

## SECTION 13: Disposal considerations

### Disposal methods

Waste treatment methods	: Dispose of in accordance with all local, state and federal regulations.
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**ATS=**

Product code: SO0260

Additional information

: Do not re-use empty containers. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition. Since emptied containers retain product residue, follow label warnings even after container is emptied. Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

## SECTION 14: Transport information

### Modes of transport

**DOT (Department of Transportation):**

Not regulated by the DOT.

**IMDG (International Maritime Dangerous Goods Code):**

Not regulated by the IMDG.

**IATA (International Air Transport Association):**

Not regulated by the IATA.

### Other transport information

No additional information available

## SECTION 15: Regulatory information

### US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

AMMONIUM THIOSULFATE

CAS-No. 7783-18-8

~ 60%

### AMMONIUM THIOSULFATE (7783-18-8)

The substance is reportable under Sara Title III, Section 313 as ammonia from a water dissociable ammonium salt.

### US State regulations

No additional information available

## SECTION 16: Other information

### Hazard Rating System

Health: 1

Flammability: 0

Physical: 0

### NFPA Rating System

NFPA health hazard: 1

NFPA fire hazard: 0

NFPA reactivity: 0

**ATS=**

Product code: SO0260

Abbreviations and acronyms	
HAP	Hazardous Air Pollutant
VOC	Volatile Organic Compound
STEL	Short Term Exposure Limit
TWA	Total Average Weight
RQ	Reportable Quantity

Revision date: 9/24/2024

Supersedes: 7/29/2022

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Indication of changes: Changes made throughout the SDS.New format.

SDS Prepared by: EP

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