

# SAFETY DATA SHEET

Date Printed: 05/19/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (4N) 99.99% Ammonium Thiosulfate

Product Code: AM-TSAT-04

CAS Number: 7783-18-8

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

## **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture Not a hazardous substance or mixture. GHS Label elements, including precautionary statements Not a hazardous substance or mixture. Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Formula : H8N2O3S2 Molecular weight : 148.21 g/mol CAS-No. : 7783-18-8

#### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Nitrogen oxides (NOx), Sulphur oxides Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust. For personal protection see section 8. Environmental precautions Do not let product enter drains. Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

Precautions for safe handling Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): 13: Non Combustible Solids

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters** Components with workplace control parameters Contains no substances with occupational exposure limit values. Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment Eye/face protection Use equipment for eve protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. **Body Protection** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Do not let product enter drains.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form: Crystals with lumps Colour: white Odour No data available Odour Threshold No data available pH No data available Melting point/freezing point: No data available Initial boiling point and boiling range: No data available Flash point ()No data available Evaporation rate No data available Flammability (solid, gas): No data available Upper/lower flammability or explosive limits: No data available Vapour pressure No data available Vapour density No data available Relative density 1.679 g/cm3 at 25 °C (77 °F) Water solubility 1,033 g/l at 100 °C (212 °F) - soluble Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: 150 °C (302 °F) -

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid No data available Incompatible materials Strong oxidizing agents, Strong acids, Magnesium, Aluminum Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Sulphur oxides Other decomposition products - No data available

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity LD50 Oral - Rat - female - > 2,000 mg/kg (OECD Test Guideline 425) Remarks: (in analogy to similar products) LC50 Inhalation - Rat - male and female - 4 h - > 2.6 mg/l (OECD Test Guideline 403) Remarks: (in analogy to similar products) LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg (OECD Test Guideline 402) Remarks: (in analogy to similar products) No data available Skin corrosion/irritation Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) Remarks: (in analogy to similar products) Serious eye damage/eye irritation Eves - Rabbit Result: No eye irritation (OECD Test Guideline 405) Respiratory or skin sensitisation Local lymph node assay (LLNA) - Mouse **Result:** negative (OECD Test Guideline 429) Germ cell mutagenicity Chromosome aberration test in vitro Chinese hamster ovary cells **Result:** negative

Ames test Escherichia coli/Salmonella typhimurium Result: negative In vitro mammalian cell gene mutation test mouse lymphoma cells **Result:** negative Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information Repeated dose toxicity - Rat - male and female - Oral - Lowest observed adverse effect level - 108 mg/kg (ECHA) RTECS: XN6465000

#### **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity Toxicity to fish static test LC50 - Lepomis macrochirus (Bluegill) - 510 mg/l - 96 h Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 230 mg/l - 48 h Remarks: (ECHA) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72h (OECD Test Guideline 201) Toxicity to bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209) Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances. **Bioaccumulative potential** No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.

# **SECTION 14. TRANSPORT INFORMATION**

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

# SECTION 15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Ammonium thiosulphate CAS-No. 7783-18-8 SARA 311/312 Hazards No SARA Hazards Massachusetts Right To Know Components Ammonium thiosulphate CAS-No. 7783-18-8 Pennsylvania Right To Know Components Ammonium thiosulphate CAS-No. 7783-18-8 New Jersey Right To Know Components Ammonium thiosulphate CAS-No. 7783-18-8 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The

information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.