



Material Safety Data Sheet

Version: 02

Revision Date: 14-7-2025

Section 1. Product Information and Company Identification				
Product name	Ammonium Thiosulphate			
Mol. formula	(NH4)2S2O3	CAS No.	7783-18-8	
Mol.wt	148.20 g/mol			
manufacturer name	Pioneers for laboratory chemicals			
Brand name	Piochem			
Address	Area 540, Industrial Zone 6th October city Giza, Egypt.			
Website	www.piochem.com			
E-mail	info@piochem.com			
Phone number	0 12 05700001			

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : (NH4)2S2O3

Molecular weight : 148.20 g/mol
CAS-No. : 7783-18-8
EC-No. : 231-982-0

No components need to be disclosed according to the applicable regulations.







SECTION 4: First aid measures

4.1 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.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx), Sulphur oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 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.

6.2 Environmental precautions

Do not let product enter drains.

6.3 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.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 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.







7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 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 eye 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 le (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

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Crystals with lumps Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available



R/D-SOP-001-F02 | Page 3 of 7 | Issue Date: 03/11/2024 | Effective Date: 03/12/2024 | Review Date: 03/12/2027 | Issue No. 01

PIOCHEM



j) Upper/lower No data available flammability or

explosive limits

k) Vapour pressure No data available

I) Vapour density No data available

m) Relative density 1.679 g/cm3 at 25 °C

n) Water solubility soluble

o) Partition coefficient: n-

octanol/water

No data available

p) Auto-ignition No data available

temperature

q) Decomposition

temperature

150 °C -

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Magnesium, Aluminum

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Sulphur oxides Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 2,890 mg/kg(Ammonium thiosulphate)

Remarks: Lungs, Thorax, or Respiration:Emphysema. Kidney, Ureter, Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis). Blood: Hemorrhage.



R/D-SOP-001-F02 Page 4 of 7 Issue Date: 03/11/2024 Effective Date: 03/12/2024 Review Date: 03/12/2027 Issue No. 01

PIOCHEM



Skin corrosion/irritation

Skin - Rabbit(Ammonium thiosulphate)

Result: No skin irritation

Serious eye damage/eye irritation

Eyes - Rabbit(Ammonium thiosulphate)

Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation

in vivo assay - Mouse(Ammonium thiosulphate) Result: Does not cause skin sensitisation.

(OECD Test Guideline 429)

Germ cell mutagenicity

Mouse(Ammonium thiosulphate)

lymphocyte 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.

Reproductive toxicity

No data available(Ammonium thiosulphate)

Specific target organ toxicity - single exposure

No data available(Ammonium thiosulphate)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Ammonium thiosulphate)

Additional Information

RTECS: XN6465000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Ammonium thiosulphate)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 - Lepomis macrochirus (Bluegill) - 510 mg/l - 96 h(Ammonium

thiosulphate)

Toxicity to daphnia and static test EC50 - Daphnia magna (Water flea) - 230 mg/l - 48 h(Ammonium

other aquatic

invertebrates

thiosulphate)

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72

h(Ammonium thiosulphate) (OECD Test Guideline 201)



R/D-SOP-001-F02 Page 5 of 7 Issue Date: 03/11/2024 Effective Date: 03/12/2024 Review Date: 03/12/2027 Issue No. 01





Toxicity to bacteria Respiration inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3

h(Ammonium thiosulphate) (OECD Test Guideline 209)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(Ammonium thiosulphate)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.



R/D-SOP-001-F02 Page 6 of 7 Issue Date: 03/11/2024 Effective Date: 03/12/2024 Review Date: 03/12/2027 Issue No. 01

PIOCHEM



15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out