

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Identification of the substance:

Trade name: Ammonium Thiosulphate Solution
CAS number: 7783-18-8
EC number: 231-982-0
REACH number: 01-2119537325-41-XXXX

Relevant identified uses of the substance or mixture and uses advised against:

Recommended use: FOR INDUSTRIAL USE.
FERTILIZER.
FOR PROFESSIONAL USE.

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

EC regulation criteria 1272/2008 (CLP): The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects: No other hazards.

Label elements:

Symbols: None.
Hazard statements: None.
Precautionary statements: None.
Special provisions: None.

Special provisions according to Annex XVII of REACH and subsequent amendments: None.

Other Hazards:

vPvB Substances: None.
PBT Substances: None.

Other Hazards: No other hazards.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Trade name: Ammonium Thiosulphate Solution
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REACH number: 01-2119537325-41-XXXX

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification: None.

Mixtures: N.A.

4. FIRST AID MEASURES

Description of first aid measures:

In case of skin contact: Wash with plenty of water and soap.
In case of eyes contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of Ingestion: Do not under any circumstances induce vomiting.
OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
Drink plenty of water.
In case of Inhalation: Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms and effects, both acute and delayed: None.

Indication of any immediate medical attention and special treatment needed:

Treatment: None.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water.
Carbon dioxide (CO₂).
Dry chemical.

Extinguishing media which must not be used for safety reasons: None in particular.

Special hazards arising from the substance or mixture: Do not inhale explosion and combustion gases.

Advice for firefighters: Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Environmental precautions: Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand.

Methods and material for containment and cleaning up: Wash with plenty of water.

Reference to other sections: See also section 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.

Advice on general occupational hygiene: Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities:
Store below 30°C.
Keep away from food, drink and feed.

Incompatible materials: Keep away from oxidising agents.

Instructions as regards storage premises: Adequately ventilated premises.

Specific end use(s): None in particular.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: No occupational exposure limit available

DNEL Exposure Limit Values: N.A.

PNEC Exposure Limit Values: N.A.

Exposure controls:

Eye protection: Not needed for normal use. Operate according to good working practices.

Protection for skin: Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or Viton.

Protection for hands: Not needed for normal use.

Respiratory protection: Not needed for normal use.

[cont...]

Thermal Hazards: None.
Environmental exposure controls: None
Appropriate engineering controls: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance and colour: Liquid
Odour: Pungent
Odour threshold: N.A.
pH: 8.0 - 9.0
Melting point / freezing point: N.A.
Initial boiling point and boiling range: ~105°C
Solid/gas flammability: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Flash point: N.A.
Evaporation rate: N.A.
Vapour pressure: N.A.
Relative density: 1.33 at 20°C
Solubility in water: 0 - 100%
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: N.A.
Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.
Substance Groups relevant properties: N.A.

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions
Chemical stability: Stable under normal conditions
Possibility of hazardous reactions: No.
Conditions to avoid: Stable under normal conditions.
Incompatible materials: Acids, alkalis and oxidising agents.
Hazardous decomposition products: Toxic gas.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicological information of the mixture:

Ammonium Thiosulphate Solution - CAS: 7783-18-8

Acute toxicity:	Not classified. Based on available data, the classification criteria are not met. Test: LD50. Route: Oral. Species: Rat – 2890 mg/kg
Skin corrosion/irritation:	Not classified. Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Not classified. Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Not classified. Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Not classified. Based on available data, the classification criteria are not met.
Carcinogenicity:	Not classified. Based on available data, the classification criteria are not met.
Reproductive toxicity:	Not classified. Based on available data, the classification criteria are not met.
STOT-single exposure:	Not classified. Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard:	Not classified. Based on available data, the classification criteria are not met.

Toxicological information of the main substances found in the product: N.A.

12. ECOLOGICAL INFORMATION

Toxicity:	Adopt good working practices, so that the product is not released into the environment.
Ammonium Thiosulphate Solution – CAS: 7783-188	
	Not classified for environmental hazards. Based on available data, the classification criteria are not met.

[cont...]

Persistence and degradability: N.A.

Bioaccumulative potential: N.A.

Mobility in soil: N.A.

Results of PBT and vPvB assessment: None.

vPvB Substances: None.

PBT Substances: None.

Other adverse effects: None.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number: Not classified as dangerous in the meaning of transport regulations.

UN proper shipping name: N.A.

Transport hazard class(es): N.A.

Packing group: N.A.

Environmental hazards: N.A.

Special precautions for user: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: N.A.

15. REGULATORY INFORMATION

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

Dir. 98/24/EC (Risks related to chemical agents at work).

Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH).

Regulation (EC) n. 1272/2008 (CLP).

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) 2015/830.

Regulation (EU) n. 286/2011 (ATP 2 CLP).

Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP).

Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP).

Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP).

Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP).

Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP).

Restrictions related to the product, or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III).
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive).

Provisions related to directive EU 2012/18 (Seveso III): N.A.

Chemical safety assessment: No Chemical Safety Assessment has been carried out for the mixture.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources: ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities.
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.