

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
PHOTOCHEMICAL PRODUCT
FOR PROFESSIONAL USE

Uses advised against: Not available

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

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

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

Other hazards: Contact with acids liberates toxic gas.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

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

Mixtures: N.A.

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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:** Wash immediately with water. Obtain medical attention if symptoms occur.
- In case of Ingestion:** Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety data sheet.
- In case of Inhalation:** Remove casualty to fresh air and keep warm and at rest.

Most important symptoms and effects, both acute and delayed: N.A.

Indication of any immediate medical attention and special treatment needed: N.A.

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:** Wear suitable protective clothing (helmet, protective clothing, goggles, fire resistant gloves, boots) and protect respiratory organs (self-contained breathing apparatus).
Use suitable breathing apparatus.
Move undamaged containers from immediate hazard area if it can be done safely.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- For non-emergency personnel:** Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.
- For emergency responders:** Wear personal protection equipment.

Environmental precautions: Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Methods and material for containment and cleaning up: Suitable material for taking up: absorbing material, organic, sand.
Dispose of the collected material in accordance with the current regulations.
Wash with plenty of water.
Retain contaminated washing water and dispose it.

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

[cont...]

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7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes, inhalation of vapours and mists.

Advice on general occupational hygiene: Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities: Keep away from food, drink and feed.

Incompatible materials: Keep away from oxidizing agents.

Instructions as regards storage premises: Keep this product in a dry place. Adequately ventilated premises.

Specific end use(s):

Recommendation(s): None in particular.

Industrial sector specific solutions: None in particular.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: No data available.

Exposure controls:

Individual protection measures: Personal protective equipment selections vary based on potential exposure conditions and working conditions.

The final choice of protective equipment will depend upon a risk assessment.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. Please see both sections 5 and 6 for information about personal protective equipment to be worn in an emergency (e.g.: fire or unintentional release of the substance).

Eye protection: Safety goggles with side protection. Technical reference standard: UNI EN 166.

Protection for skin: Wear chemical resistant clothing.

Safety shoes.

Wear chemical resistant safety shoes. Technical reference standard: UNI EN 20345.

Protection for hands: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Glove suitability and breakthrough time will differ depending on the specific use conditions.

Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Wear suitable gloves tested to EN374.

Suitable material: NBR (nitrile rubber) (Recommended thickness of the material: 0.4 mm;
Permeation time: > 480 min)

Respiratory protection: Depending on the potential for exposure, select respiratory protective equipment suitable for the specific conditions of use and in compliance with current legislation.

Half-face mask with combined filter.

Technical reference standard for filters to be used in the presence of gases and vapours: UNI EN 14387.

Combined filter: B/K-P2 (grey-green-white colour).

Filter mask FFP2/FFP3 for solid particles.

Technical reference standard: UNI EN 149.

Thermal Hazards: N.A.

Environmental exposure controls: N.A.

Hygienic and Technical measures: N.A.

[cont...]

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Colourless
Odour:	Pungent
Odour threshold:	N.A.
pH:	8.0 - 9.0 (100%)
Kinematic viscosity:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	±105°C
Flash point:	N.A.
Upper/lower explosive limits:	N.A.
Relative vapour density:	N.A.
Vapour pressure:	N.A.
Density and/or relative density:	1.33kg/dm ³
Solubility in water:	100%
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Flammability:	N.A.
Volatile Organic compounds (VOCs):	N.A.
Particle characteristics:	
Particle size:	N.A.
Other information:	
Explosive properties:	Non-explosive
Oxidizing properties:	Non-oxidising

10. STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions. Contact with acids liberates toxic gas.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Stable under normal conditions.
Conditions to avoid:	Stable under normal conditions.
Incompatible materials:	Acids. Oxidants.
Hazardous decomposition products:	Toxic gases. Sulphur dioxide. Nitrogen oxides. Ammonia.

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Not classified.

Based on toxicological data, classification criteria are not met.

Toxicological Information of the Substance:

Acute toxicity:

Not classified.

Based on available data, the classification criteria are not met.

LD50 Oral Mouse > 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.

Information on other hazards:

Endocrine disrupting properties: This substance has no endocrine disrupting properties.

12. ECOLOGICAL INFORMATION

Toxicity:

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product:

Not classified for environmental hazards.

No data available for the product.

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Persistence and degradability: Not persistent and Biodegradable.

Bioaccumulative potential: Not bioaccumulative.

Mobility in soil: N.A.

Results of PBT and vPvB assessment: This substance has no PBT, vPvB or endocrine disrupting properties.

Endocrine disrupting properties: This substance has no PBT or vPvB properties.
This substance has no endocrine disrupting properties.

Other adverse effects: N.A.

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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
A safety data sheet is not required for this product in accordance with EU regulations.

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

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

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.