



SALES & SERVICES

HEAD OFFICE

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Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER

1.1 Product identifiers

Product name : SODIUM THIOSULPHATE 20% SOLUTION

1.2 Other means of identification

Sodium thiosulphate.

1.3 Recommended use of the product and restrictions on use

Photography (fixing agent to dissolve unchanged silver salts from exposed negatives), chrome tanning, removing chlorine in bleaching and papermaking, extraction of silver from its ores, de-chlorination of water, mordant, reagent, bleaching, reducing agent in chrome dyeing, sequestrant in salt (up to 0.1%), and antidote for cyanide poisoning

1.4 Details of supplier of the safety data sheet

Company : AGent Sales & Services Pty Ltd

Street address : 38 May Holman Drive, Bassendean, Western Australia 6054

Telephone : (+61 8) 6270 4500

Fax : (+61 8) 6270 4544

1.4 Emergency telephone number

Telephone : 1300 883 844

2. HAZARDS IDENTIFICATION

2.1 GHS Classification

N/A

2.2 GHS Label elements, including precautionary statements: N/A

Signal word : N/A

Hazard statement(s)

N/A

Precautionary statement(s)

Prevention

N/A

Response

N/A

Storage

N/A

Disposal

N/A

2.3 Other hazards

N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Classification	Concentration (%)
Sodium Thiosulphate	7772-98-7	N/A	20
Water	7732-18-5	N/A	80

4. FIRST AID MEASURES

4.1 Description of First Aid measures

General advice

Contact the Poisons Information Centre (Phone: Australia 131 126; New Zealand 0800 764 766) or consult a doctor/physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If inhaled, remove from contaminated area – avoid becoming a casualty. If rapid recovery does not occur, seek medical assistance.

In case of skin contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If skin irritation occurs, seek medical advice. Wash contaminated clothing before re-use.

In case of eye contact

In case of eye contact, check for and remove any contact lenses. Immediately rinse thoroughly with plenty of running water for at least 15 minutes, keeping eyelids open. Consult a doctor/physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical assistance.

4.2 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

4.3 First Aid facilities

Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use fine water spray, normal foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the chemical

Non-combustible material. Vapours/fumes of oxides of sulphur and hydrogen sulphide may be evolved.

5.3 Special protective equipment and precautions for fire fighters

Wear self-contained breathing apparatus and suitable protective clothing.

5.4 Hazchem code

N/A

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. If contamination of sewers or waterways has occurred, advise local emergency services. Observe all local and national regulations.

6.3 Methods and materials for containment and cleaning up

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Neutralise with dilute acid. Collect and seal in properly labelled containers or drums for disposal. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep out of reach of children.

For precautions see Section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place and out of direct sunlight. Store away from foodstuffs. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use – check regularly for leaks. Store upright to prevent leakage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC).

Biological Limits

None allocated for this product.

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. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Personal protective equipment (PPE)

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods and environmental factors.

Eye/face protection

Face shield and safety glasses or goggles. See Australian Standards (AS/NZS 1336 & 1337).

Skin protection

Wear protective gloves (long) and protective clothing (splash apron or equivalent chemical impervious outer garment and rubber boots) appropriate for the risk of exposure. See Australian Standards (AS 2161 & 2919 and AS/NZS 2210). 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. Wash and dry hands.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. See Australian Standards (AS/NZS 1715 & 1716).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form : Liquid Colour : Colourless
Odour:	Odourless
pH:	No data available
Freezing Point:	No data available
Boiling Point/Range:	No data available
Decomposition Temperature:	No data available
Evaporation Rate:	No data available
Flash Point:	Not applicable
Flammability Limits:	No data available
Specific Gravity:	1.10 @ 20°C
Vapour Density (air=1):	No data available

Vapour Pressure:	No data available
% Volatiles:	No data available
Solubility in water:	Miscible in water

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reacts violently with sodium nitrite.

10.2 Chemical stability

Product is stable under normal conditions of use, storage and temperature.

10.3 Possibility of hazardous reactions

Polymerisation not expected to occur.

10.3 Conditions to avoid

Avoid exposure to excessive heat, elevated temperatures, sunlight, flames and incompatible materials.

10.4 Incompatible materials

Incompatible with sodium nitrate, sodium nitrite, potassium nitrate, halogens, acids, lead, silver salts and mercury.

10.5 Hazardous decomposition products

Include hydrogen sulphide, sulphur dioxide and sodium oxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Swallowing may irritate the gastrointestinal tract causing nausea and diarrhoea. LD₅₀ (Rat): 2700 mg/kg

Skin corrosion/irritation

Prolonged and/or repeated contact may cause irritation and/or dermatitis.

Eye damage/eye irritation

May cause irritation, redness, pain and conjunctivitis.

Respiratory irritation

May cause irritation to the respiratory tract and may result in coughing and shortness of breath.

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 indication of teratogenicity.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data available.

12.2 Persistence and degradability

The product degrades naturally.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available. Soluble in water.

12.5 Other adverse effects

No data available. Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods and containers

Ensure waste disposal conforms to relevant local, state and federal authority waste disposal regulations. All empty packaging should be disposed of as unused product. Empty containers can contain vapour; do not drill cut, grind or weld.

14. TRANSPORT INFORMATION

Classified as a Dangerous Goods by the criteria of the ADG Code for transport by road or rail.

14.1 UN number	N/A
14.2 Proper shipping name	SODIUM THIOSULPHATE SOLUTION
14.3 Transport hazard class	N/A
14.4 Packing group	N/A
14.5 Environmental hazards	N/A
14.6 Special precautions for users	N/A
14.7 Hazchem code	N/A
14.8 Dangerous goods initial emergency response guide (SAA/SNZ HB76:2010)	N/A

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Not allocated.

Carcinogen classification under WHS Regulations 2011

Not listed

Notification status

AICS N/A

16. OTHER INFORMATION

Key / legend to abbreviations and acronyms used in the SDS

ADG	Australian Dangerous Goods
ASCC	Australian Safety and Compensation Council
DEC	Department of Environment and Conservation
GHS	Globally Harmonised System of Classification & Labelling of Chemicals
NOHSC	National Occupational Health and Safety Commission
RTECS	Registry of Toxic Effects of Chemical Substances.
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Eye Dam.	Serious eye damage
STOT SE3	Specific target organ toxicity (single exposure) - Category 3
Skin Corr.	Skin corrosion
TWA	Time weighted average
STEL	Short term exposure level
SWA	Safe Work Australia
Peak Limitations	A ceiling concentration that should not be exceeded over a measurement period, which should be as short as possible, but not exceeding 15 minutes
LD ₅₀	Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation
LC ₅₀	Lethal concentration that kills 50% of an animal population within a specified time
TD Lo	The lowest dose of a substance known to have produced signs of toxicity
RTECS	Registry of Toxic Effects of Chemical Substances
g/L	Grams per litre
g/cm ³	Grams per cubic centimetre
mg/m ³	Milligrams per cubic metre
mg/kg	Milligrams per kilogram
pH	Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline
WHS	Work Health and Safety

Literature references

“Workplace Exposure Standards for Airborne Contaminants, December 2011” by SWA Work Health and Safety Regulations 2011

Reason(s) for Issue:

Revised primary SDS

Alignment to GHS requirements

Disclaimer

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