

Material Safety Data Sheet

SODIUM THIOSULPHATE

Infosafe No. ACOEE **Issue Date** April 2004 **Status** ISSUED by APSSC

Not classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name APS, A Division of Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572)
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 NSW 2147

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Other Information New Zealand: Asia Pacific Specialty Chemicals (NZ) Limited
 119 Carbine Road
 Mt Wellington, Auckland 6
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 Telephone: (09) 276 4019
 Fax: (09) 276 7231

IDENTIFICATION

Product Code AR 00000517

Product Name SODIUM THIOSULPHATE

Proper Shipping Name None Allocated

Other Names	Name	Product Code
	SODIUM THIOSULPHATE	UL 00000518
	SODIUM THIOSULPHATE ANHYD	TECH 00000505
	SODIUM THIOSULPHATE ANHYD	PHOT 00004253
	SODIUM THIOSULPHATE CRYSTALS	TECH 00005923

UN Number None Allocated
DG Class None Allocated
Packing Group None Allocated
Hazchem Code None Allocated
Product Use Chemical Reagent. Bleaching of bone, straw, ivory. Fixing photographic prints.

Physical Data

Appearance Colourless crystals.

Melting Point	48°C
Boiling Point	Not available.
Vapour Pressure	Not available.
Specific Gravity	1.69
Flash Point Flamm.	Not available.
Limit LEL	Not available.
Solubility in Water	Not available.

Other Properties

pH Value	6.5 - 8.0 for aqueous solution.
Form	Solid
Stability	Stable under normal conditions of use.
Materials to Avoid	On contact with acids, this material liberates sulphur dioxide which is a highly toxic gas by inhalation.
Molecular Weight	248.17, hydrated.

Ingredients

Ingredients	Name	CAS	Proportion
	Sodium thiosulphate	7772-98-7	100 %

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed	Ingestion of this product may irritate the gastric tract, causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system. Signs and symptoms are similar to those of alcohol intoxication.
Acute - Eye	This product is irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Acute - Skin	This product is irritating to skin on contact and can cause sensitisation in some individuals.
Acute - Inhaled	Irritating to respiratory system. Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. High concentrations may cause symptoms of intoxication similar to those seen if the product is swallowed.

Hazards

Identification

Not classified as a hazardous substance according to the criteria of the NOHSC.
Not classified as dangerous goods according to the ADG Code.

First Aid

Swallowed	DO NOT induce vomiting. If vomiting occurs naturally, have the victim place head below hip level to reduce the risk of aspiration into the lungs. Seek immediate medical attention.
Eye	If contact with the eyes occurs, wash with copious amounts of water holding eyelids open. Take care not to rinse contaminated water into the non-

Skin	affected eye. Seek immediate medical attention. If skin or hair contact occurs remove contaminated clothing and wash contaminated skin and hair with running water and follow by washing with mild soap and water. Wash contaminated clothing before re-use. Seek medical attention.
Inhaled	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a facemask if breathing is difficult. If not breathing apply artificial respiration. Seek immediate medical attention.
First Aid Facilities	Eye wash and normal washroom facilities.

Advice to Doctor

Advice to Doctor Treat symptomatically.

Other Health Hazard Information

PRECAUTIONS FOR USE

Other Exposure Info.	No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour.
Eng. Controls	Use in an adequately ventilated area. General factory ventilation is normally sufficient. Local exhaust ventilation will be required in confined areas or where natural ventilation is not sufficient to maintain concentrations below exposure limits.

Personal Protection

Respirator Type (AS 1716)	If engineering controls are not effective in controlling airborne exposure then a full face-piece respirator fitted with a P2/P3 filter, or a powered air-supplied respirator fitted with a P2 filter, should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances. Filter capacity and respirator type depends on exposure levels.
Eye Protection	Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Glove Type	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.
Clothing	Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS 2919: Industrial clothing.

Flammability

Fire Hazards The product is considered non-combustible. Its other hazardous properties should however be considered if it is involved in a fire.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions	Store in a cool, dry, well ventilated area away from sources of ignition. This product should be stored away from foodstuffs and strong oxidising agents. Keep containers tightly closed when not in use and when empty. For information on the design of the storerooms or warehouses reference should be made to any relevant Australian or New Zealand regulations.
Transport	Australia; Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. New Zealand; Not classified as Dangerous Goods for transport according to the NZS 5433:1999 Transport of Dangerous Goods on Land.
Handling	Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is, always wash hands before eating, drinking smoking or using the toilet. When using do not eat, drink or smoke. Keep containers closed when not in use. Exclude all sources of ignition from work area.
Proper Shipping Name	None Allocated

Spills and Disposal

Accidental Release Measures	Remove all sources of heat and ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear sufficient respiratory protection and full protective clothing to minimise skin and eye exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well with soap and water. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.

Fire/Explosion Hazard

Fire/Explos. Hazard	Decomposes on heating emitting noxious fumes. Sulphur dioxide is a highly toxic gas; high concentrations of which can cause oedema of the lungs and respiratory paralysis.
Fire Fighting Procedures	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to fumes or products of combustion.
Extinguishing Media	Use extinguishers suitable for the other material involved.
Hazardous Reaction	None given.
Hazchem Code	None Allocated

OTHER INFORMATION

Toxicology Environment Protection Risk Statement	No toxicity data is available for this specific product. Avoid contaminating waterways.
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Safety Statement	S25 Avoid contact with eyes. S39 Wear eye/face protection.
Regulatory Information	Poisons Schedule (Australia) : NS Poisons Schedule (New Zealand) : NS
Bioaccumulation	No data available for this product.
Ecotoxicity	No data available for this product.
Persistence / Degradability	No data available for this product.
Mobility	No data available for this product.
SDS History	MSDS revised: April 2004 MSDS supersedes: April 1999

CONTACT POINT

Contact Australia: Business Hours: Mr Paul Verren
Telephone: (02) 9839 4024
Emergency Tel: 1800 022 037

New Zealand: Business Hours: Mr Lloyd Williams
Telephone: (09) 276 4019
Emergency Tel: 0800 154 666

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Nuplex Industries (Aust) Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

End of MSDS
