



SAFETY DATA SHEET

PRODUCT NAME: SODIUM THIOSULPHATE

Issue Date: May 23

IDENTIFICATION

Product Name: Sodium Thiosulphate
Other Names: Sodium hyposulphite.
Product Code: ZSTHIO
Uses: Dechlorinating agent
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Te Rapa Park, Hamilton
Phone: 079744971 Web: www.hamchem.nz Email: sales@hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

HAZARD IDENTIFICATION



GHS Classifications

Skin Irritation – Category 2
Eye Irritation – Category 2
Skin Sensitisation - Category 1

Signal Word: Warning

Hazard Statements:

H315 – Causes skin irritation
H319 – Causes serious eye irritation
H317 – May cause an allergic skin reaction

Prevention:

P264 – Wash hands thoroughly after handling
P280 – Wear protective gloves/clothing and eye/face protection
P261 – Avoid breathing dust/fume/gas/mist/vapour/spray
P272 – Contaminated clothing should not be allowed out of the workplace

Response:

P302 + P352 – IF ON SKIN: Wash with plenty of water.
P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention
P362 + P364 – Take off contaminated clothing and wash it before reuse
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 – If eye irritation persists: Get medical advice/attention

Disposal:

P501 – Dispose of contents/container to an approved waste facility in accordance with local regulations

COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
Sodium Thiosulphate, pentahydrate	10102-17-7	99%

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FIRST AID MEASURES

Inhalation: Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash affected area with soap and plenty of water. If irritation persists, seek medical attention.

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. If irritation persists, see doctor.

Ingestion: Remove by gastric lavage or emesis. Give oxygen if necessary. See a doctor immediately. Gastric lavage should be performed by qualified medical personnel.

Medical attention and special treatment: Treat symptomatically based on judgement of doctor and individual reactions of patient.

Medical Conditions Aggravated by Exposure: No information available on medical conditions aggravated by exposure to this product.

FIRE FIGHTING MEASURES

Flammability Conditions: Product is a non-flammable solid.

Extinguishing Media: In case of fire, appropriate extinguishing media include water mist, sand, carbon dioxide, foam or dry chemical. Use water spray to cool nearby containers exposed to fire.

Hazardous Products of Combustion: Non-combustible solid. Negligible explosion hazard in dust form when exposed to heat or flame. Incompatible with sodium nitrite, potassium nitrate, sodium nitrate, halogens, acids, lead, silver salts, mercury and sources of ignition.
Hazardous decomposition products include toxic oxides of sulfur.

Personal Protective Equipment: Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.

Move fire exposed containers from fire area if it can be done without risk.

Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Flash Point: No Data Available

Lower Explosion Limit: No Data Available

Upper Explosion Limit: No Data Available

Auto Ignition Temperature: No Data Available

Hazchem Code: No Data Available

ACCIDENTAL RELEASE MEASURES

General Response Procedure: Avoid accidents, clean up immediately. Slippery when spilt. Personnel involved in the clean up should wear full protective clothing as listed in section 8. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Clean Up Procedures: Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly.

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HANDLING & STORAGE

Handling: Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.

Storage: Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks.
Protect against physical damage. Store away from incompatible materials as listed in section 10. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container: Store in original packaging as approved by manufacturer.

EXPOSURE CONTROLS & PERSONAL PROTECTION

General: No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC) or Worksafe NZ. However, the exposure standard for dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).

Exposure Limits: No Data Available

Biological Limits: No information available on biological limit values for this product.

Engineering Measures: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection Equipment:

RESPIRATOR: Wear an P1 or P2 particulate respirator when handling this product (AS1715/1716).

EYES: Safety glasses with side shields (AS1336/1337).

HANDS: Wear rubber or PVC gloves (AS2161).

CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

Work Hygienic Practices: No Data Available

PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Crystals or granules
Colour:	Colourless to white
Odour:	Odourless
Molecular Formula:	Na ₂ S ₂ O ₃ ·5H ₂ O
Solubility in water:	79g/100 ml water 4°C
Specific Gravity:	1.7
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20 °C):	Not available
Flash Point (°C):	Not applicable
Flammability Limits (%):	Not available
Auto ignition Temperature (°C):	Not available
Melting Point/Range (°C):	48
Boiling Point/Range (°C):	Decomposes before boiling.
pH:	6.0-8.4

STABILITY & REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage. Stability limited in solution.

Conditions to Avoid: Excessive heat, generating dust, direct sunlight, moisture and high temperatures.

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Materials to Avoid: Incompatible with sodium nitrite, potassium nitrate, sodium nitrate, halogens, acids, lead, silver salts, mercury and sources of ignition. Reacts with acids to release sulphur dioxide.

Hazardous Decomposition Products: Hazardous decomposition products include oxides of sulphur and hydrogen sulphide.

Hazardous Polymerisation: Will not occur.

TOXICOLOGICAL INFORMATION

General Information: CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Eye Irritant: May cause irritation, redness, pain and conjunctivitis.

Ingestion: May cause irritation and digestive discomfort. Symptoms include nausea and diarrhoea.

Inhalation: May cause mucous membrane irritation, and coughing.

Skin Irritant: Skin contact may cause irritation and/or dermatitis.

Carcinogen Category: No Data Available

ECOLOGICAL INFORMATION

Ecotoxicity: No ecological information available for this product.

Persistence/Degradability: No information available on persistence/degradability for this product.

Mobility: No information available on mobility for this product.

Environmental Fate: Avoid contaminating waterways, drains and sewers.

Bioaccumulation Potential: No information available on bioaccumulation for this product.

Environmental Impact: No Data Available

DISPOSAL CONSIDERATIONS

General Information: Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill: Contact a specialist disposal company or the local waste regulator for advice.

TRANSPORT INFORMATION

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land.

REGULATORY INFORMATION

HSNO Classifications: 6.3A, 6.4A, 6.5B

EPA Approval #: HSR002684 – Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020

OTHER INFORMATION

End of SDS.

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