1. Identification

GHS Product Identifier: SODIUM THIOSULFATE Pentahydrate
Company Name: CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address: 38 - 50 Bedford Street GILLMAN
SA 5013  Australia
Telephone/Fax Number: Tel: (08) 8440-2000
Fax: (08) 8440-2001
Emergency phone number: CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

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, dechlorination of water, mordant, analytical and laboratory reagent, bleaching, reducing agent in chrome dyeing, sequestrant in salt (up to 0.1%) and antidote for cyanide poisoning.

2. Hazard Identification

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Characterization</th>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
<th>Hazard Symbol</th>
<th>Risk Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td></td>
<td>Sodium thiosulfate pentahydrate</td>
<td>10102-17-7</td>
<td>95-100 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Inhalation of any vapours from this product is not likely to present an acute hazard.
Ingestion: Rinse mouth thoroughly with water immediately. Do not induce vomiting. Seek medical advice if effects persist.
Skin: Wash with plenty of soap and water. If irritation occurs seek medical advice.
Eye contact: Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.

5. Fire-fighting measures

Hazard from Combustion Products: May librate toxic fumes in fire (sulfur oxides).
Safety Data Sheet

SODIUM THIOSULFATE Pentahydrate

Not classified as hazardous

Specific Methods
No limitations to the type of extinguishing media.
Use suitable measures to fight surrounding fire.

Specific hazards arising from the chemical
Material does not burn.

Decomposition
100 °C (release of crystalline water)

Precautions in connection with Fire
Use suitable protective clothing and breathing equipment for surrounding fire.

6. Accidental release measures

Personal Precautions
Avoid inhalation, contact with skin, eyes and clothing.

Personal Protection
Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages
Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling
Avoid generation or accumulation of dusts. Wash hands and face thoroughly after working with material.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry place. Store away from acids. Store away from oxidizing agents. Keep containers securely sealed and protected against physical damage.

8. Exposure controls/personal protection

Other Exposure Information
A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m³ for dusts or mists when limits have not otherwise been established.

Appropriate engineering controls
In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Respiratory Protection
Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Eye Protection
The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection
Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Personal Protective Equipment
Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

Footwear
Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection
Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures
Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form
Solid

Appearance
White translucent crystals or powder.

Odour
Odourless.

Decomposition Temperature
100 °C (release of crystalline water)
Product Name: SODIUM THIOSULFATE Pentahydrate

Not classified as hazardous

10. Stability and reactivity

Chemical Stability Stable under normal use conditions.
Conditions to Avoid Strong heating. Incompatibles.
Incompatible Materials
Sodium nitrate, nitrites, halogens, acids, fluorine, oxidising agents, peroxy compounds, iodine, silver salts, mercury salts, lead.
Hazardous Decomposition Products Sulfur oxides, hydrogen sulfides.
Possibility of hazardous reactions
Reacts with acids to release sulfur dioxide, a highly toxic gas by inhalation. Sulfur dioxide is detectable by taste at 1 ppm and smell at approximately 4 ppm, providing some warning of unsuitable working conditions.
Hazardous Polymerization
Will not occur.

11. Toxicological Information

Acute Toxicity - Oral LD50 (rat): > 5000 mg/kg
Ingestion May cause mild irritation to the gastrointestinal tract. Diarrhea, nausea and vomiting may occur by ingestion of large quantities.
Inhalation May cause respiratory tract irritation with symptoms including coughing and shortness of breath.
Skin May cause skin irritation.
Eye May cause mechanical irritation to the eye.
Carcinogenicity No evidence of carcinogenic properties.
Chronic Effects Repeated or prolonged skin contact may cause chronic dermatitis.
Mutagenicity No evidence of mutagenic properties.

12. Ecological information

Ecological Information
No ecological problems are to be expected when the product is handled and used with due care and attention.
Persistence and degradability Methods for the determination of biodegradability are not applicable to inorganic substances.
Bioaccumulative Potential No bioaccumulation is expected (log P(o/w<1) log P(o/w) -4.53 anhydrous material.

13. Disposal considerations

Disposal Considerations Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS).
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Not classified as hazardous

16. Other Information

Literature References

'Standard for the Uniform Scheduling of Medicines and Poisons.', Commonwealth of Australia.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Chemical Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

Contact

Person/Point

Paul McCarthy Ph. (08) 8440 2000

DECLARATION STATEMENT:

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Empirical Formula & Structural Formula

Na₂S₂O₃.5H₂O

...End Of MSDS...