



## Material Safety Data Sheet

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### SECTION 1: Identification of Substance

TRADE NAME : Sodium Thiosulfate Pentahydrate ( $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ )  
COMPANY IDENTIFICATION : Aste Global Pte Ltd  
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CONTACT NUMBER : Tel: +65 6862 1212, Fax: +65 6897 9959  
EMAIL : Info@aste.com.sg

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### SECTION 2: Composition / Data on Components

CHEMICAL CHARACTERIZATION : Sodium Thiosulfate – CAS# 10102-17-7  
Water – CAS# 7732-18-5 (Balance)  
ADDITIONAL INFORMATION : Makes one liter of 0.1N solution after dilution.

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### SECTION 3: Hazards Identification

HAZARD DESCRIPTION : Not applicable  
PARTICULAR DANGERS FOR MAN  
& ENVIRONMENT : Not applicable

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### SECTION 4: First Aid Measures

AFTER INHALATION : Supply fresh air, provide artificial respiration if required, keep patient warm, seek medical advice.  
AFTER SKIN CONTACT : Wash with water and soap, rinse thoroughly, seek medical advice.  
AFTER EYE CONTACT : Rinse eyes with running water for several minutes, consult doctor.  
AFTER SWALLOWING : Seek medical treatment.

**SECTION 5: Fire Fighting Measures**

SUITABLE EXTINGUISHING AGENTS : Product not flammable; use extinguishing measures suitable for surrounding fire.  
PROTECTIVE EQUIPMENT: : Wear self-contained respirator and fully protective suit.

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**SECTION 6: Accidental Release Measures**

PERSONAL PRECAUTIONS : Wear protective equipment, keep unprotected persons away, ensure ventilation.  
MEASURES FOR CLEANING/COLLECTING : Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).  
ADDITIONAL INFO: : Refer to Section 7 (handling), Section 8 (PPE), Section 13 (disposal).

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**SECTION 7: Handling and Storage**

SAFE HANDLING : Keep container tightly sealed, store in cool/dry place.  
EXPLOSION/FIRE PROTECTION : Product is not flammable.  
STORAGE REQUIREMENTS : No special requirements.  
INCOMPATIBLE MATERIALS : Aqueous solutions incompatible with alkali/alkaline earth metals and many reactive chemicals.

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**SECTION 8: Exposure Controls / Personal Protection**

ENGINEERING CONTROLS : Use fume hood (average face velocity  $\geq 100$  ft/min).  
EXPOSURE LIMITS : Not required.  
GENERAL PROTECTIVE AND HYGIENIC MEASURES : Follow standard precautionary measures for handling chemicals.  
Keep away from foodstuffs, beverages, and feed.  
Remove all soiled and contaminated clothing immediately.  
Wash hands before breaks and at the end of work.  
PPE  
RESPIRATORY : Suitable respirator for high concentrations.  
HANDS : Impervious gloves  
EYES : Safety glasses  
BODY : Protective clothing

### SECTION 9: Physical & Chemical Properties

FORM	:	Crystal
COLOR	:	Colorless
ODOR	:	Odorless
MELTING POINT	:	48.5°C
BOILING POINT	:	Not determined
FLASH POINT	:	Not applicable
DECOMPOSITION TEMP.	:	Not determined
EXPLOSION HAZARD	:	None
EXPLOSION LIMITS		
LOWER	:	Not determined
UPPER	:	Not determined
VAPOR PRESSURE	:	Not determined
DENSITY	:	Not determined
SOLUBILITY IN WATER	:	Fully miscible

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### SECTION 10: Stability & Reactivity

		Stable if stored as specified.
MATERIALS TO AVOID	:	Oxidizers, acids, halogens, alkali & alkaline earth metals.
DANGEROUS REACTIONS	:	Reacts with alkali & alkaline earth metals.
DECOMPOSITION PRODUCTS	:	Sulfur dioxide.

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### SECTION 11: Toxicological Information

SKIN	:	May cause irritation.
EYES	:	May cause irritation.
INGESTION	:	May cause cyanosis or cathartic effect in large doses.
SENSITIZATION	:	None known.
CARCINOGENICITY	:	Not classified by EPA, IARC, NTP, OSHA, or ACGIH.

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### SECTION 12: Ecological Information

GENERAL NOTES	:	Do not release into the environment without permits.
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**SECTION 13: Disposal Considerations**

PRODUCT : Dispose per local/national regulations.  
PACKAGING : Dispose per official regulations. Clean with water if needed.

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**SECTION 14: Transport Information**

DOT REGULATIONS : Not a hazardous material for transportation.  
HAZARD CLASS : None  
LAND TRANSPORT ADR/RID (CROSS-BORDER) ADR/RID CLASS : None  
MARITIME TRANSPORT IMDG IMDG CLASS : None  
AIR TRANSPORT ICAO-TI AND IATA-DGR ICAO/IATA CLASS : None  
TRANSPORT/ADDITIONAL INFORMATION : Not dangerous according to the above specifications.

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**SECTION 15: Regulations**

REGULATORY STATUS : All components listed in EPA TSCA Inventory.  
USE LIMITATION : For use only by technically qualified individuals.

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**SECTION 16: Other Information**

Employers should use this information alongside other data to ensure safe handling. No warranty is given, and improper use is the responsibility of the user.

DEPARTMENT ISSUING MSDS : Health, Safety and Environmental Department.