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PRODUCT: SODIUM METASILICATE

1. PRODUCT IDENTIFICATION

PRODUCT NAME: **SODIUM METASILICATE** (pentahydrate or anhydrous)

PROPER SHIPPING NAME: DISODIUM TRIOXOSILICATE

STATEMENT OF HAZARDOUS NATURE:

Classified as hazardous according to criteria of Worksafe Australia.

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE/ODOUR	:	White Granules / odourless
FLASHPOINT (°C)	:	Not applicable
BOILING POINT	:	Not applicable
FLAMMABILITY LIMITS (%)	:	Not applicable
VAPOUR PRESSURE	:	Not applicable
SOLUBILITY IN WATER	:	Appreciable complete at 20°C
SPECIFIC GRAVITY	:	Not available
pH	:	12.3
VAPOUR DENSITY (air=1)	:	Not available

USE: CLEANING COMPOUND ADDITIVE

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS:

SODIUM METASILICATE (PENTAHYDRATE OR ANHYDROUS)
DISODIUM TRIOXOSILICATE

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:
SODIUM METASILICATE (CAS No. 6834-92-0) 100%

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

EFFECTS OF OVEREXPOSURE: Dust may be irritating to the respiratory tract. Harmful effects or illness can result from swallowing this material. Strong eye irritation. Strong skin irritation.

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes.

SKIN CONTACT: Wash contact areas with soap and water. Remove contaminated clothing. Get medical assistance. Launder contaminated clothing before reuse.

INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth-to-mouth resuscitation.

INGESTION: Do not induce vomiting. Give 1 to 2 glasses of water. Get medical assistance.

MATERIAL SAFETY DATA SHEET**PRODUCT: SODIUM METASILICATE****5. FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: This material will not burn; however, use standard chemical fire fighting procedures and consider the hazards of other involved materials. Product reactivity may require specialized fire fighting procedures. Prevent run-off from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): NA

Flammable limits - LEL: NA, UEL: NA.

HAZARDOUS DECOMPOSITION PRODUCTS: Silicon dioxide. Metal oxides.

NA = Not Available

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. Personnel performing clean up must use protective equipment.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: Avoid all personal contact.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use in well ventilated area.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION: Chemical type goggles must be worn.

SKIN PROTECTION: Gloves as required to handle hot materials.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits.

9. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Fluorine

HAZARDOUS DECOMPOSITION PRODUCTS: Silicon dioxide. Metal oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

10. TOXICOLOGICAL DATA**ACUTE TOXICOLOGY**

ORAL TOXICITY (RATS): Harmful (LD50: greater than 200 but 2000 mg/kg or less). Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Not applicable

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). Based on testing of similar products and/or the components.

MATERIAL SAFETY DATA SHEET**PRODUCT: SODIUM METASILICATE**

EYE IRRITATION (RABBITS): Strong irritant. (Draize score: greater than 35 but 55 or less). Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Strong irritant. (Primary Irritation Index: 5 or greater but less than 6). Based on testing of similar products and/or the components.

11. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

12. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: The product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

13. OTHER INFORMATION

UN NUMBER	:	3253
DANGEROUS GOODS		
CLASS & SUB RISK	:	8
PROPER SHIPPING NAME	:	DISODIUM TRIOXOSILICATE
HAZCHEM CODE	:	2X
PACKAGING GROUP	:	III
POISONS SCHEDULE	:	S5 (Alkaline salt)
USES	:	Cleaning compound additive

EU Labelling:

Symbol:	Xi Irritant.
Risk Phrase(s):	R36/38 Irritating to eyes and skin.
Safety Phrase(s):	S36/39-26 Wear suitable protective clothing and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

CONTACT POINT:	EMERGENCY No. 0419 341 095 any time
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DISCLAIMER: The information given in this data sheet is based on data supplied by the manufacturer and is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. The information and recommendations offered are for the user's consideration and it is the user's responsibility to satisfy themselves that they are suitable and complete for this particular purpose. We recommend that the safety and handling information presented in this data sheet be passed on, in an appropriate format, to your customers and handlers.