



PRICE CHEMICALS PTY LIMITED

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Material Safety Data Sheet

Date Printed: 1st July 2011

Date Updated: 13/MAR/2004

According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

1 - Product and Company Information

Product Name SODIUM METASILICATE

Company Price Chemicals Pty Ltd
10 Pile Road
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2 - Composition/Information on Ingredients

Product Name CAS # EC no Annex I

Index Number

SODIUM METASILICATE 6834-92-0 229-912-9 014-010-00-8

Formula Na₂SiO₃

Molecular Weight 122.06 AMU

Synonyms B-W * Crystamet * Disodium metasilicate *

Disodium monosilicate * Metso 20 * Metso beads

2048 * Metso beads, drymet * Metso pentabead 20

* Orthosil * Sodium metasilicate * Sodium

metasilicate, anhydrous * Sodium silicate *

Water glass

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Causes burns. Irritating to respiratory system.

4 - First Aid Measures

AFTER INHALATION If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S) Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

ENVIRONMENTAL PRECAUTION(S) Avoid contaminating water supply. Avoid contaminating sewers and waterways with this material.

METHODS FOR CLEANING UP Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE Conditions of Storage: Keep tightly closed.

SPECIAL REQUIREMENTS: Hygroscopic.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance Physical State: Solid

Color: White

Form: Powder

Property Value At Temperature or Pressure

pH 14

BP/BP Range N/A

MP/MP Range N/A

Flash Point N/A

Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A

SG/Density N/A

Partition Coefficient N/A

Viscosity N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

Evaporation Rate N/A

Bulk Density N/A

Decomposition Temp. N/A

Solvent Content N/A

Water Content N/A

Surface Tension N/A

Conductivity N/A

Miscellaneous Data N/A

Solubility Solubility in Water:Complete

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions to Avoid: Moisture.

Materials to Avoid: Strong acids, Lead, Tin/tin oxides, Zinc, Aluminum.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Sodium/sodium oxides, Silicon oxide.

HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: VV9275000

ACUTE TOXICITY

LD50

Oral

Rat

1153 mg/kg

Remarks: Gastrointestinal:Ulceration or bleeding from stomach.

Gastrointestinal:Ulceration or bleeding from duodenum.

Gastrointestinal:Ulceration or bleeding from small intestine.

LD50

Oral

Mouse

770 mg/kg

Remarks: Gastrointestinal:Ulceration or bleeding from stomach.

Gastrointestinal:Ulceration or bleeding from duodenum.

Gastrointestinal:Ulceration or bleeding from small intestine.

IRRITATION DATA

Skin

Human

250 mg

24H

Remarks: Severe irritation effect

Skin

Rabbit

250 mg

24H

Remarks: Severe irritation effect

Skin

Guinea pig

250 mg

24H

Remarks: Moderate irritation effect

SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes burns.

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat

Dose: 15 GM/KG

Route of Application: Oral

Exposure Time: (14W MALE/14W PRE-3W POST)

Result: Effects on Newborn: Stillbirth. Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).

Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Species: Rat

Dose: 9766 UG/KG

Route of Application: Subcutaneous

Exposure Time: (1D MALE)

Result: Paternal Effects: Testes, epididymis, sperm duct.

Species: Rat

Dose: 9766 UG/KG

Route of Application: Intratesticular

Exposure Time: (1D MALE)

Result: Paternal Effects: Testes, epididymis, sperm duct.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an

afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

UN#: 3253

Class: 8

PG: III

Proper Shipping Name: Disodium trioxosilicate

IMDG

UN#: 3253

Class: 8

PG: III

Proper Shipping Name: Disodium trioxosilicate

Marine Pollutant: No

Severe Marine Pollutant: No

IATA

UN#: 3253

Class: 8

PG: III

Proper Shipping Name: Disodium trioxosilicate

Inhalation Packing Group I: No

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

ANNEX I INDEX NUMBER: 014-010-00-8

INDICATION OF DANGER: C

Corrosive.

R-PHRASES: 34 37

Causes burns. Irritating to respiratory system.

S-PHRASES: 13 36/37/39 45

Keep away from food, drink, and animal feedingstuffs. Wear suitable protective clothing, gloves, and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 1

SWITZERLAND

SWISS POISON CLASS: 3

16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our

knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Price Chemicals Pty Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.