

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

PRODUCT NAME:MAX 3004 WATER SEAL (S/B)

MANUFACTURER'S NAME: SEMITRONE CONCHEM LTD.

Reviewed & Approved by

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2. HAZARD IDENTIFICATION

| CHEMICAL NAME | CAS NO. | NFPA CODE | TLV | PEL |
|-------------------|---------|-----------|---------|---------|
| ALIPHATIC SOLVENT | N.A. | 2/2/0/- | 500 ppm | 500 ppm |

3. PHYSICAL DATA

Mixtures

BOILING POINT (EF): 315-380EF**SPECIFIC GRAVITY (H2O=1):**0.86.

VAPOR PRESSURE (mmHg): Higher % **VOLATILE (by weight):** 85%

VAPOR DENSITY (Air=1):Lower **EVAPORATION RATE (Ether=1):**0.06

SOLUBILITY IN WATER: Negligible **APPEARANCE AND ODOR:** Colorless liquid with light kerosene

order.

VOLATILE ORGANIC COMPONENTS:710 g/L

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 105EF**FLAMMABLE LIMITS:** LEL = 0.7 UEL = 6.0

EXTINGUISHING MEDIA: Use foam, dry chemical or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Use air supplied breathing apparatus. Use the procedure for fighting petroleum solvent fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Because vapors are heavier than air they may travel along the ground or by ventilation systems far away from material handling point.

5. FIRE HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, skin, eyes, ingestion.

CARCINOGENIC INFORMATION: Not listed (OSHA, IARC, NTP).

MEDICAL CONDITIONS AGGRAVATED

BY OVEREXPOSURE: No applicable information to be found.

EFFECTS OF OVEREXPOSURE: Overexposure can lead to central nervous system depression

producing effects such as headache, dizziness, nausea and loss of consciousness, and even asphyxiation.

EYE CONTACT: Short-term contact with vapor, mist or liquid can cause slight eye irritation. Repeated or prolonged contact can be more irritating.

SKIN CONTACT: Repeated or prolonged contact with liquid can lead to defatting and drying of the skin and could result in skin irritation and dermatitis.

INHALATION: High concentrations or prolonged exposure to low concentrations may cause a slight irritation to mucous membranes.

INGESTION: Liquid ingestion may result in vomiting; aspiration of liquid into the lungs is to be avoided, liquid contact with lungs can cause pulmonary edema/hemorrhage and chemical pneumonitis.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Flush with large amounts of water, lift both upper and lower eyelids frequently to assure thorough flushing under lids. Seek medical attention. If irritation persists see a physician.

SKIN CONTACT: Wash with mild soap and water, apply skin cream. Remove contaminated clothing and launder before reuse. Discard contaminated shoes. If irritation persists see a physician.

INHALATION: Remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention immediately.

INGESTION: If swallowed, do not induce vomiting, contact poison control center. If vomiting occurs keep head below hips to prevent aspiration of liquid into lungs, which can cause chemical pneumonitis, which can be fatal. See a physician immediately.

6. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:

Heat, sparks, open flame and fire. Keep away from pilot lights, extinguish all pilot lights in room and adjacent rooms. Be sure to search for multiple pilot lights on appliances.

HAZARDOUS/THERMAL DECOMPOSITION PRODUCTS:

Carbon monoxide and unidentified organics may be formed during combustion.

7. SPILL OR LEAK PROCEDURES

Precautions for safe handling

| | |
|-------------------|--|
| Usage precautions | Avoid contact with skin and eyes. Avoid generation and spreading of dust. Avoid inhalation of dust. Mechanical ventilation or local exhaust ventilation may be required. Change contaminated clothing. Do not eat, drink or smoke when using this product. |
|-------------------|--|

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Unsuitable container materials: Aluminium. The product contains less than 2 mg chromate/kg dry cement, and this limit will not be exceeded for 6 months from the packing date stated on the packaging. Seal opened containers and use up as soon as possible. To be stored out of reach of children in its original packaging in a dry place.

Storage class Store in Cool dry area.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters Occupational exposure limits

CEMENT

Long-term exposure limit (8-hour TWA) : WEL 4 mg/m³

CALCIUM SULFOALUMINATE

Long-term exposure limit (8-hour TWA) : 4 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA) : 10 mg/m³ inhalable dust

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. This product may present a chromate (VI) allergy risk. It contains a chromate reducing agent, but users should wear appropriate personal protective equipment.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield. (conform EN 166)

Hand protection

Wear protective gloves. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. If signs of wear and tear are noticed then the gloves should be replaced.

| | |
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| Other skin and body protection | Wear appropriate clothing to prevent any possibility of skin contact. |
| Hygiene measures | <p>This product contains silica sands.</p> <p>The grain size distribution of silica sand present means that it is not classified as hazardous. However, any respirable crystalline dust generated by secondary processing may cause health effects.</p> <p>Prolonged and /or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness.</p> <p>Occupational exposure to respirable crystalline silica dust should be monitored and controlled. Change contaminated clothing.</p> |
| Respiratory protection | Wear a suitable dust mask. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. (EN 149) |
| Environmental exposure controls | Not available |

9. PHYSICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|---------------------------------|-----------------|
| Appearance | Powder. |
| Colour | Grey. |
| Odour | Odourless. |
| pH | > 12 |
| Melting point | 1250°C |
| Initial boiling point and range | Not determined. |
| Flash point | Not determined. |
| Relative density | 1.3 @ 27°C |
| Solubility(ies) | Not applicable. |

Other information

Other information Not determined.

10. STABILITY & REACTIVITY DATA

Reactivity

Reactivity When mixed with water, hardens to form a stable mass that is not reactive in normal conditions.

Chemical stability

Stability Stable at normal ambient temperatures. When stored under humid conditions, the chromate neutralization will decrease. This product contains a chromate reducing agent to reduce the risk of allergic dermatitis caused by chromium (VI). This product has a shelf life. If not stored in accordance with packaging instructions (sealed and dry), there is an increased risk of the presence of hexavalent chromate leading to an increased risk of an allergic reaction. The product will harden into a solid mass in contact with water and moisture.

Possibility of hazardous reactions

Water, moisture.

Conditions to avoid

Conditions to avoid

Incompatible materials

Materials to avoid Strong acids.

Hazardous decomposition products

Hazardous decomposition Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). products

11. Toxicology Information

Information on toxicological effects

| | |
|--------------|--|
| Inhalation | Dust may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. |
| Ingestion | Not likely, due to the form of the product. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. |
| Skin contact | Dust has an irritating effect on moist skin. Prolonged contact with moist or wet product may cause burns. |
| Eye contact | Dust or splashes from the mixture may cause permanent eye damage. Immediate first aid is necessary. |

Acute and chronic health frequent inhalation of dust over a long period of time increases the risk of developing lung hazards/diseases.

Toxicological information on ingredients.

CEMENT

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rabbit

Serious eye damage/irritation

Serious eye Causes serious eye irritation.

Damage/ Irritation

CALCIUM SULFOALUMINATE

General information May cause respiratory allergy.

12. Ecological Information

Toxicity

Ecotoxicity The product is not expected to be hazardous to the environment.

Persistence and degradability

Persistence and degradability the product is not biodegradable.

Ecological information on ingredients.

CEMENT

Persistence and Expected to be not readily biodegradable degradability

CALCIUM SULFOALUMINATE

Persistence and Expected to be not readily biodegradable degradability

Bioaccumulative potential

Ecological information on ingredients.

CEMENT

Bio accumulative potential No data available on bioaccumulation.

CALCIUM SULFOALUMINATE

Bioaccumulative potential No data available on bioaccumulation.

Mobility in soil

Mobility The product is not volatile but may be spread by dust-raising handling.

Ecological information on ingredients.

CEMENT

Mobility Insoluble in water.

CALCIUM SULFOALUMINATE

Mobility Insoluble in water.

Results of PBT and vPvB assessment

Ecological information on ingredients.

CEMENT

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

CALCIUM SULFOALUMINATE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Ecological information on ingredients.

CEMENT

Other adverse effects

CALCIUM SULFOALUMINATE

Other adverse effects

13. Disposal Information

Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport Information

UN number

UN No. (ADR/RID) 3262

UN No. (IMDG) 3262

UN No. (ICAO) 3262

UN No. (ADN) 3262

UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS CEMENT , LITHIUM HYDROXIDE)

Proper shipping name (IMDG) CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS CEMENT , LITHIUM HYDROXIDE)

Proper shipping name (ICAO) CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS CEMENT , LITHIUM HYDROXIDE)

Proper shipping name
(ADN) CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS CEMENT ,
LITHIUM HYDROXIDE)

Transport hazard class(es)

ADR/RID class 8
ADR/RID classification code C6
ADR/RID label 8
IMDG class 8
ICAO class/division 8
ADN class 8
Transport labels



Packing group
ADR/RID packing group I
IMDG packing group I
ICAO packing group I
ADN packing group I

Environmental hazards

Environmentally hazardous substance/marine pollutant No.

Special precautions for user

IMDG Code segregation 18. Alkalis group
EmS F-A, S-B
ADR transport category 1
Emergency Action Code 2X
Hazard Identification Number
(ADR/RID)88
Tunnel restriction code (E)

Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

National regulations The Manufacture, storage and import of hazardous chemicals rules 1989.

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance Workplace Exposure Limits EH40.
CHIP for everyone HSG228.
Approved Classification and Labelling Guide (Sixth edition) L131.
Safety Data Sheets for Substances and Preparations.

Chemical safety assessment

16. Other Information

| | |
|---------------------------|---|
| General information | The user must be instructed in the proper work procedure and be familiar with the contents of these instructions. |
| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| Revision date | 06/07/2020 |
| Revision | 4A |
| Supersedes date | 30/08/2015 |
| SDS number | 23075 |
| Hazard statements in full | H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. |