

Material Safety Data Sheet

Siegling Australia Pty. Ltd

Reviewed on 06/04/2003

1 Identification of substance:

- **Product details:**
- **Trade name: EXTREMULTUS VAS 3 Cement**
- **Manufacturer/Supplier:**
Siegling Australia Pty. Ltd ABN 50 003 038 640
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Mt Waverley Victoria 3149
- **Information department:**
Marketing Services Department
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*** 2 Composition/Data on components:**

- **Chemical characterization**
- **Description:**
Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

| | |
|---------------------|----------|
| 64-18-6 formic acid | 50-100 % |
| 108-46-3 resorcinol | 10-25 % |
| 64-17-5 ethanol | 10-25 % |

*** 3 Hazards identification**

- **Hazard description:**
Corrosive
Highly flammable
- **Information pertaining to particular dangers for man and environment**
Highly flammable. Harmful if swallowed. Causes burns.

- **Classification system**
The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0-4)**
Health = 3
Fire = 3
Reactivity = 0

4 First aid measures

- **General information**
Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation**
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing**
Immediately call a doctor.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

*** 6 Accidental release measures**

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

* **7 Handling and storage**

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

* **8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:

64-18-6 formic acid

TLV: Short-term value: 19 mg/m³, 10 ppm

Long-term value: 9.4 mg/m³, 5 ppm

108-46-3 resorcinol

TLV: Short-term value: 90 mg/m³, 20 ppm

Long-term value: 45 mg/m³, 10 ppm

64-17-5 ethanol

TLV: 1880 mg/m³, 1000 ppm

- **Additional information:**
The lists that were valid during the creation were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:** Protective gloves.
- **Eye protection:** Tightly sealed goggles.

* **9 Physical and chemical properties:**

- **Form:** Fluid
- **Color:** According to product specification
- **Odor:** Characteristic
- | | <u>Value/Range</u> | <u>Unit</u> | <u>Method</u> |
|---|--|-------------|---------------|
| • Change in condition | | | |
| • Melting point/Melting range: | | | undetermined |
| • Boiling point/Boiling range: | | 78 ° C | |
| • Flash point: | | 9 ° C | |
| • Ignition temperature: | | 425 ° C | |
| • Auto igniting: | Product is not selfigniting. | | |
| • Danger of explosion: | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. | | |
| • Explosion limits: | | | |
| • Lower: | | 1.4 Vol % | |
| • Upper: | | 33.0 Vol % | |
| • Vapor pressure: | at 20 ° C | | 59 hPa |
| • Density: | at 20 ° C | | 1.103 g/cm3 |
| • Solubility in / Miscibility with | | | |
| • Water: | Fully miscible | | |
| • pH-value: | at 20 ° C | | 1 |
| • Solvent content: | | | |
| • Organic solvents: | | 14.3 % | |
| • Water: | | 10.0 % | |
| • Solids content: | | 19.0 % | |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:**
No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
LD/Lc50 values that are relevant for classification:
64-18-6 formic acid
Oral: LD50: 1100 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information:

- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

***14 Transport information**

- **DOT regulations:**
- **Hazard class:** 3
- **Identification number:** UN3286
- **Packing group:** II
- **Proper shipping name (technical name):**
Flammable liquid, toxic, corrosive, n.o.s., ethanol (Ethyl alcohol), resorcinol
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 3 Flammable liquids
- **Item:** 27b
- **Danger code (Kemler):** 368
- **UN-Number:** 3286
- **Description of goods:** Flammable liquid, toxic, corrosive, n.o.s., ethanol, resorcinol
- **Maritime transport IMDG:**
- **IMDG Class:** 3.2
- **Page:** 3232-1
- **UN Number:** 3286
- **Packaging group:** II
- **EMS Number:** 3-03
- **MFAG:** 310
- **Marine pollutant:** No
- **Propper shipping name:** Flammable liquid, toxic, corrosive, n.o.s., ethanol (Ethyl alcohol), resorcinol
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 3
- **UN/ID Number:** 3286
- **Packaging group:** II
- **Propper shipping name:** Flammable liquid, toxic, corrosive, n.o.s., ethanol (Ethyl alcohol), resorcinol

***15 Regulations**

- **Markings according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
- **Code letter and hazard designation of product:**
Corrosive
Highly flammable
- **Hazard-determining components of labelling:**
ethanol
resorcinol
- **Risk phrases:**
Highly flammable. Harmful if swallowed. Causes burns.
- **Safety phrases:**
Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately.
- **National regulations**
- **Technical instructions (air):**
Class Share in %
Wasser 10.0
I 75.7
III 14.3
- **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:**
Marketing Services Australia based on data provided by Chemical Laboratory Siegling GmbH 30179 Hanover Lilienthalstr. 6/8
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- **Contact:** -
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