

# SAFETY DATA SHEET

## Section 1 - Identification

|   |   |
|---|---|
| <b>Product Identifier</b>   | ARMOR PLATE SEALER                      |
| <b>Recommended use</b>  | Floor sealer.                           |
| <b>Recommended restrictions</b>                                     | For commercial and industrial use only. |
| <b>Manufacturer / Importer / Supplier / Distributor Information</b> |   |
| <b>Company Name</b>   | Chemeco (Aust)                          |
| <b>Emergency Phone</b>  | (03) 9408 8699                          |

## Section 2 - Hazard(s) Identification

|  | Classification  | Category |
|--|---|----------|
| <b>Physical Hazards</b>                          | Not Classified  |          |
| <b>Health Hazards</b>                            | Not Classified  |          |
| <b>OSHA defined hazards</b>                      | Not Classified.   |          |
| <b>Label Elements</b>                            |   |          |
| <b>Hazard Symbol</b>                             | None.   |          |
| <b>Signal Word</b>                               | Not Available   |          |
| <b>Hazard statement</b>                          | Not available.  |          |
| <b>Precautionary statement</b>                   |   |          |
| <b>Prevention</b>                                | Observe good industrial hygiene practices.  |          |
| <b>Response</b>                                  | Wash thoroughly after handling.   |          |
| <b>Storage</b>                                   | Store away from incompatible materials.   |          |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national/international regulations. |          |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |          |

## Section 3 - Composition/Information on ingredients

### Mixture

#### Hazardous Components

| Ingredient Name                   | CAS #    | %     |
|-----------------------------------|----------|-------|
| 2-(2-Butoxyethoxy) Ethanol        | 112-34-5 | 1 - 5 |
| Diethylene Glycol Monoethyl Ether | 111-90-0 | 1 - 5 |
| Tris(2-Butoxyethyl) Phosphate     | 78-51-3  | 1 - 5 |

## Section 4 - First-aid Measures

|  |  |
|--|--|
| <b>Inhalation</b>  | Move to fresh air. Get medical attention if irritation persists.   |
| <b>Skin contact</b>  | Wash skin with soap and water. Get medical attention if irritation persists.                                     |
| <b>Eye contact</b>   | Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation persists.          |
| <b>Ingestion</b>   | Rinse mouth thoroughly with water. Seek medical advice.  |
| <b>Most Important symptoms /effects, acute and delayed</b>             | Mild eye irritation.   |
| <b>Indication of immediate medical attention and special treatment</b> | Treat symptomatically.   |
| <b>General Information</b>   | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## Section 5 - Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.              |
| <b>Unsuitable extinguishing media</b>                                | Not available.  |
| <b>Specific hazards arising from the chemical</b>                    | None known.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |



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**Fire-fighting equipment /instruction** Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.

**General fire hazards** This product is not flammable or combustible.

## Section 6 - Accidental release measures

**Personal precautions, protective equipment and emergency procedures.** Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.

**Methods and materials for containment and cleaning up** SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.  
LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

## Section 7 - Handling and storage

**Precautions for safe handling** Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.

**Conditions for safe storage, including any incompatibilities** Store away from incompatible materials. Keep container closed.

## Section 8 - Exposure control/personal protection

### Occupational exposure limits

#### US. Workplace environmental Exposure Level (WEEL) Guides

| Component  | Type | Value                          |
|--|------|--------------------------------|
| Diethylene Glycol Monoethyl Ether (CAS 111-90-0) | TWA  | 140 mg/m <sup>3</sup> , 25 ppm |

#### US. ACGIH Threshold Limit Values

| Component                                 | Type | Value  |
|---|------|--------|
| 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5) | TWA  | 10 ppm |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** Use personal protective equipment as required. Keep working clothes separately.

**Appropriate engineering controls** Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

#### Skin protection

**Hand protection** Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## Section 9 - Physical and chemical properties

**Appearance** Opaque Liquid.

**Physical state** Liquid.

**Form** Liquid.

**Color** White.

**Odor** Acrylic.

**Odor threshold** Not available.



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|   |                  |
|---|------------------|
| <b>pH</b>   | 8.2              |
| <b>Melting point/freezing point</b>                 | Not available.   |
| <b>Initial boiling point and boiling range</b>      | Not available.   |
| <b>Flash point</b>                                  | None to boiling. |
| <b>Evaporation rate</b>                             | Not available.   |
| <b>Flammability (solid, gas)</b>                    | Not available.   |
| <b>Upper/lower flammability or explosive limits</b> |                  |
| <b>Flammability limit - lower (%)</b>               | Not available.   |
| <b>Flammability limit - upper (%)</b>               | Not available.   |
| <b>Explosive limit - lower (%)</b>                  | Not available.   |
| <b>Explosive limit - upper (%)</b>                  | Not available.   |
| <b>Vapor pressure</b>                               | Equal to water.  |
| <b>Vapor density</b>                                | Equal to water.  |
| <b>Relative density</b>                             | 1.02 ± 0.01      |
| <b>Relative density temperature</b>                 | 75 °F (23.89 °C) |
| <b>Solubilities</b>                                 | Soluble          |
| <b>Partition Coefficient n-octanol/water</b>        | Not available    |
| <b>Auto-ignition temperature</b>                    | Not Available    |
| <b>Decomposition temperature</b>                    | Not Available    |
| <b>Viscosity</b>                                    | < 10 cP          |
| <b>Viscosity Temperature</b>                        | 75 °F (23.89 °C) |

## Section 10 - Stability and reactivity

|  |  |
|--|--|
| <b>Reactivity</b>                        | Not available.                           |
| <b>Chemical stability</b>                | Stable at normal conditions.             |
| <b>Possibility of hazardous reaction</b> | Hazardous polymerization does not occur. |
| <b>Conditions to Avoid</b>               | Contact with incompatible materials.     |
| <b>Incompatible materials</b>            | Strong oxidizing agents.                 |
| <b>Hazardous Decomposition Pro</b>       | Carbon monoxide. Carbon dioxide.         |

## Section 11 - Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Ingestion</b>    | No adverse effects due to ingestion are expected.  |
| <b>Inhalation</b>   | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| <b>Skin contact</b> | Prolonged or repeated skin contact may cause drying, cracking, or irritation.                      |
| <b>Eye contact</b>  | May cause eye irritation.  |

**Symptoms related to the physical, chemical and toxicological characteristics** May cause eye irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

### Information on toxicological effects.

|   |  |        |      |         |                    |  |
|---|--|--------|------|---------|--------------------|--|
| <b>Acute toxicity</b>                                   | Not expected to be hazardous.                                    |        |      |         |                    |  |
| Components  | Level  | Type   | Code | Species | Results            |  |
| 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)               | Acute  | Dermal | LD50 | Rabbit  | 2764 mg/kg, (Male) |  |
| <b>Skin corrosion/irritation</b>                        | Prolonged or repeated contact may dry skin and cause irritation. |        |      |         |                    |  |
| <b>Serious eye damage/ eye irritation</b>               | May cause eye irritation.  |        |      |         |                    |  |
| <b>Respiratory sensitization</b>                        | Not classified.  |        |      |         |                    |  |
| <b>Skin sensitization</b>                               | Not available.   |        |      |         |                    |  |
| <b>Germ cell mutagenicity</b>                           | Not classified.  |        |      |         |                    |  |
| <b>Carcinogenicity</b>                                  | Not classified.  |        |      |         |                    |  |
| <b>Reproductive toxicity</b>                            | Not classified.  |        |      |         |                    |  |
| <b>Specific target organ toxicity - single exposure</b> | Not classified.  |        |      |         |                    |  |



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Specific target organ toxicity - repeated exposure Not classified.  
Aspiration hazard Not classified.

## Section 12 - Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.  
**Persistence and degradability** The product is expected to be biodegradable.  
**Bioaccumulative potential** Not known.

### Partition coefficient n-octanol / water log (Kow)

| Components                                       | Results |
|--|---------|
| 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)        | 0.56    |
| Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)      | 3.75    |
| Diethylene Glycol Monoethyl Ether (CAS 111-90-0) | -0.54   |

**Mobility in soil** Not available.  
**Mobility in general** The product is water soluble and may spread in water systems.  
**Other adverse effects** None known.

## Section 13 - Disposal considerations

**Disposal instructions** Dispose in accordance with applicable federal, state, and local regulations.  
**Local disposal regulations** Dispose of in accordance with local regulations.  
**Hazardous waste code** Waste codes should be assigned by the user based on the application for which the product was used.  
**Waste from residues / unused products** Dispose in accordance with all applicable regulations.  
**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14 - Transport information

**DOT** Not regulated as dangerous goods.  
**IATA** Not regulated as dangerous goods.  
**IMDG** This substance/mixture is not intended to be transported in bulk.  
**Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code**

## Section 15 - Regulatory Information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** Not regulated.  
**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-)** Not listed.  
**CERCLA Hazardous Substance List (40 CFR 302.4)**

| Components                                       | Result |
|--|--------|
| Diethylene Glycol Monoethyl Ether (CAS 111-90-0) | LISTED |
| Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)      | LISTED |
| 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)        | LISTED |

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

|                          |                   |    |
|--------------------------|-------------------|----|
| <b>Hazard Categories</b> | Immediate Hazard  | No |
|                          | Delayed Hazard    | No |
|                          | Fire Hazard       | No |
|                          | Pressure Hazard   | No |
|                          | Reactivity Hazard | No |



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**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

| Chemical name                     | CAS #    | % by wt. |
|-----------------------------------|----------|----------|
| Diethylene Glycol Monoethyl Ether | 111-90-0 | 1 - 5    |
| Tris(2-Butoxyethyl) Phosphate     | 78-51-3  | 1 - 5    |
| 2-(2-Butoxyethoxy) Ethanol        | 112-34-5 | 1 - 5    |

**Other federal regulations**

- Components
- Diethylene Glycol Monoethyl Ether (CAS 111-90-0)
- Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)
- 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants**

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.  
**Food and Drug Administration (FDA)** Not regulated.

**US state regulations**

**US.Massachusetts RTK - Substance List** Components  
 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)  
 Diethylene Glycol Monoethyl Ether (CAS 111-90-0)  
 Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

**US.New Jersey Worker and Community Right-to-Know Act** Components  
 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)  
 Diethylene Glycol Monoethyl Ether (CAS 111-90-0)  
 Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

**US.Pennsylvania RTK - Hazardous Substances** Components  
 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)  
 Diethylene Glycol Monoethyl Ether (CAS 111-90-0)  
 Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

**US.Rhode Island RTK** Components  
 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)  
 Diethylene Glycol Monoethyl Ether (CAS 111-90-0)  
 Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)

**US - California Proposition 65** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**International Inventories**

| Country(s) or region | Inventory Name   | On Inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand          | New Zealand Inventory  | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances              | Yes                    |



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Unites States Toxic Substances Control Act (TSCA) Inventory Yes  
Puerto Rico

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

\*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## Section 16 - Other information, including date of preparation or last version

**Issue date** 5/28/2014

**Version #** 01

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