

#### Section 1 - Identification

Product Identifier ARMOR PLATE CONCRETE CLEANER

**Recommended use** Alkaline cleaner.

**Recommended restrictions** For commercial and industrial use only.

Manufacturer / Importer / Supplier / Distributor Information

Company Name Chemeco (Aust) 17 Yale Drive Epping VIC 3076

**Emergency Phone** (03) 9408 8699

### Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

Classification Category

Physical Hazards Not Classified

Health Hazards Serious eye damage/eye irritation 1

Skin corrosion/irritation 1

Specific target organ toxicity, single exposure 3 TARGET ORGAN:

respiratory tract

irritation

**OSHA** defined hazards

Label Elements

Not Classified.



**Hazard Symbol** 

Signal Word Danger

**Hazard statement** Causes severe skin burns and eye damage. May cause respiratory irritation.

**Precautionary statement** 

**Prevention** Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye

protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or

smoke when using this product. Use only outdoors or in a well-ventilated area.

**Response** If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower. Wash

contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call

a poison center/doctor.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

### Section 3 - Composition/Information on ingredients

#### **Mixture**

### **Hazardous Components**

Ingredient Name	CAS#	%
2-Butoxyethanol	111-76-2	5 - 10
Nonylphenol, ethoxylated	9016-45-9	1 - 5
Sodium dimethylbenzenesulfonate	1300-72-7	1 - 5
Sodium Hydroxide	1310-73-2	1 - 5

#### Section 4 - First-aid Measures

**Inhalation** If respiratory irritation or distress occurs, remove victim to fresh air. If breathing is

difficult, give oxygen. If breathing stops, apply artificial respiration. CONSULT A

PHYSICIAN.

**Skin contact** Remove contaminated clothing and shoes. Wash off immediately with plenty of water



for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated

clothing before reuse.

Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting Eve contact

the upper and lower eyelids. Check and remove contact lenses. Continue to rinse for

at least 10 minutes.

Ingestion Rinse mouth thoroughly with water. DO NOT induce vomiting. If victim is fully

> conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration.

Call a physician or poison control center immediately.

Most Important symptoms /effects, acute and delayed Indication of immediate medical attention and special treatment

Causes skin and eve burns.

Treat symptomatically.

**General Information** Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

### Section 5 - Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.

Not available. None known.

chemical

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case

of fire.

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.

This product is not flammable or combustible. General fire hazards

#### 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

Do not get in eyes, on skin, or on clothing. Do not breathe 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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Tvpe Value

2-Butoxyethanol (CAS 111-76-2) **TWA** 240 mg/m<sup>3</sup>, 50 ppm

Sodium Hydroxide (CAS 1310-73-2) TWA 2 mg/m<sup>3</sup>

**US. ACGIH Threshold Limit Values** 

Component Type Value Ceiling Sodium Hydroxide (CAS 1310-73-2) 2 mg/m<sup>3</sup> 2-Butoxyethanol (CAS 111-76-2) TWA 20 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards** 



Components Type Value

2-Butoxyethanol (CAS 111-76-2) TWA 24 mg/m³, 5 ppm Sodium Hydroxide (CAS 1310-73-2) Ceilin 2 mg/m³

g

US. ACGIH. BEIs. Biological Exposure Indices

Component Value Determinate Specimen Sampling

2-Butoxyethanol (CAS 111-76-2) 200 mg/g Butoxyacetic acid Creatinine in urine \*

(BAA), with hydrolysis

\* - For sampling details, please see the source document.

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

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

Components Exposure

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed though the skin.

US.Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

Components Exposure

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

**US.NIOSH: Pocket Guide to Chemical Hazards** 

Component Exposure

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed though the skin.

US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100)

Components Exposure

2-Butoxyethanol (CAS 111-76-2) Can be absorbed though the skin.

US.OSHA Table Z-1-A (29 CFR 1910.100)

Components Exposure

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed though the skin.

US.Tennesee. OELs Occupational Exposure Limits, Table Z1A
Components Exposure

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed though the skin.

**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 approved chemical safety 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 AppearanceClear.Physical stateLiquid.FormLiquid.ColorGreen.OdorCitrus.

Odor threshold Not available.

**pH** 13.5

Melting point/freezing point Not available.

Initial boinging point and 212 °F (100 °C)

boiling range

Flash point  $> 212.0 \,^{\circ}\text{F} (> 100.0 \,^{\circ}\text{C})$ 

**Evaporation rate** Not available.



Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Similar to water. Similar to water. Vapor density Relative density  $1.05 \pm 0.01$ Relative density temperature 75 °F (23.89 °C) **Solubilities** 100 % Soluble. Partition Coefficient n-Not available.

octanol/water

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity< 10 cP</th>

Viscosity Temperature 75 °F (23.89 °C)

### Section 10 - Stability and reactivity

**Reactivity** Not available.

Chemical stability Stable at normal conditions.

 $\textbf{Possibility of hazardous reaction} \ \ \textbf{Hazardous polymerization does not occur}.$ 

Conditions to Avoid Contact with incompatible materials.

Incompatible materials Strong exidizing agents.

Hazardous Decomposition Pro Carbon monoxide. Carbon dioxide.

## **Section 11 - Toxicological information**

#### Information on likely routes of exposure

**Ingestion** May cause burns of the gastrointestinal tract if swallowed.

**Inhalation** Irritating to respiratory system.

**Skin contact** Causes skin burns.

**Eye contact** Causes serious eye damage.

Symptoms related to the physical,

chemical and toxicological

Causes skin and eye burns. Causes respiratory tract irritation. Symptoms may be

delayed.

characteristics

## Information on toxicological effects.

Acute toxicity May cause burns.

Components Code Species Level Type Results Nonylphenol, ethoxylated (CAS 9016-45-9) Acute Oral LD50 Mouse 4290 mg/kg, bw Sodium Hydroxide (CAS 1310-73-2) Acute Oral LD50 Rabbit 500 mg/kg 2-Butoxyethanol (CAS 111-76-2) Acute Dermal LD50 Rabbit 400 mg/kg Inhalation 450 mg/l, 4 hrs Acute LC50 Rat Acute Oral LD50 Rat 560 mg/kg Sodium dimethylbenzenesulfonate (CAS Acute Dermal LD50 Rabbit >2000 mg/kg

1300-72-7)

Acute Oral LD50 Rat 7200 mg/kg

**Skin corrosion/irritation** Causes skin burns.

**Serious eye damage/ eye irritation** Causes serious eye damage.

Respiratory sensitizationNot classified.Skin sensitizationNot classified.Germ cell mutagenicityNot classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Component Result Comment

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.



Reproductive toxicity Not classified.

Specific target organ toxicity -

single exposure

Irritating to respiratory system.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not classified.

**Chronic effects** 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is

repeated and prolonged. These effects have not been observed in humans.

Prolonged or repeated exposure may cause liver and kidney damage. These effects

have not been observed in humans.

### **Section 12 - Ecological Information**

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms.

Components

Nonylphenol, ethoxylated, 9016-45-9

Aquatic

Acute Crustacea EC50 Daphnia magna 65 mg/l, 48 hours

Crustacea EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours

**Persistence and degradability** The product is expected to be biodegradable.

Bioaccumulative potential Not known.

Partition coefficient n-octanol / water log (Kow)

Components Results 2-Butoxyethanol (CAS 111-76-2) 0.83

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

UN number UN1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8
Packing group || |

Special precautions for users Read safety instructions, SDS and emergency procedures before handling.

Special provisions B2, IB2, N34, T7, TP2

Packaging exemption154Packaging non bulk202Packaging bulk242

IATA

UN number UN1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8
Packaging group II
Environmental hazards No.
ERG Code 8L



Special precautions for user

**IMDG** 

Read safety instructions, SDS and emergency procedures before handling.

**UN** number UN1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8 Packaging group Ш **Environmental hazards** No.

Marine pollutant

**EmS** F-A, S-B

Special precautions for user Transportation in bulk according to Annex II of MARPOL 73/78 and

**IBC Code** 

Read safety instructions, SDS and emergency procedures before handling.

This substance/mixture is not intended to be transported in bulk.

Section 15 - Regulatory Information

> **US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

TSCA Section 12(b) Export

Notification (40 CFR707, Subpt. D) US. OSHA Specifically Regulated

Substances (29 CFR 1910.1001-

**CERCLA Hazardous Substance** 

List (40 CFR 302.4

Communication Standard, 29 CFR 1910.1200.

Not regulated.

Not listed.

Components Result LISTED Sodium Hydroxide (CAS 1310-73-2) 2-Butoxyethanol (CAS 111-76-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Not listed.

Hazard Immediate Hazard Yes Categories **Delayed Hazard** Nο

> Fire Hazard No Pressure Hazard Nο Reactivity Hazard Nο

SARA 302 Extremely hazardous

substance

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting) Not regulated.

> CAS# Chemical name % by wt. 5 - 10 2-Butoxyethanol 111-76-2

Other federal regulations

Clean Air Act (CAA) Section Not regulated.

112 Hazardous Air Pollutants

Clean Air Act (CAA) Section Not regulated.

112(r) Accidental Release **Prevention (40 CFR 68.130)** 

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

(FDA)

**US** state regulations

**US.Massachusetts RTK-**Components

**Substance List** Sodium Hydroxide (CAS 1310-73-2)

2-Butoxyethanol (CAS 111-76-2)

**US.New Jersey Worker and** Components

Community Right-to-Know Act Sodium Hydroxide (CAS 1310-73-2) 2-Butoxyethanol (CAS 111-76-2)



US.Pennsylvania RTK - Components

Hazardous Substances Sodium Hydroxide (CAS 1310-73-2)

2-Butoxyethanol (CAS 111-76-2)

US.Rhode Island RTK Components

Sodium Hydroxide (CAS 1310-73-2) 2-Butoxyethanol (CAS 111-76-2)

#### **US - California Proposition 65**

# **International Inventories**

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	No
Europe	European List of Notifed Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites States Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

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

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

**Issue date** 5/22/2014 **Version #** 01

**Disclaimer** The information contained herein was obtained from current and reliable sources.

However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various

government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this

SDS. The user should review these regulations to ensure full compliance.

<sup>\*</sup>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).