

# SAFETY DATA SHEET

## 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	
<b>Physical Hazards</b>	Not Classified		
<b>Health Hazards</b>	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** Not Classified.  
**Label Elements**



**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



# SAFETY DATA SHEET

<b>Eye contact</b>	for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.
<b>Ingestion</b>	Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check and remove contact lenses. Continue to rinse for at least 10 minutes.
<b>Most Important symptoms /effects, acute and delayed</b>	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.
<b>Indication of immediate medical attention and special treatment</b>	Causes skin and eye burns.
<b>General Information</b>	Treat symptomatically.
	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.
<b>Fire-fighting equipment /instruction</b>	Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.
<b>General fire hazards</b>	This product is not flammable or combustible.

## Section 6 - Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures.</b>	Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## Section 7 - Handling and storage

<b>Precautions for safe handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	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	Type	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
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm

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



# SAFETY DATA SHEET

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m <sup>3</sup> , 5 ppm
Sodium Hydroxide (CAS 1310-73-2)	Ceilin g	2 mg/m <sup>3</sup>

**US. ACGIH. BEIs. Biological Exposure Indices**

Component	Value	Determinate	Specimen	Sampling
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

\* - 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. Tennessee. 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**

<b>properties Appearance</b>	Clear.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Green.
<b>Odor</b>	Citrus.
<b>Odor threshold</b>	Not available.
<b>pH</b>	13.5
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	212 °F (100 °C)
<b>Flash point</b>	> 212.0 °F (> 100.0 °C)
<b>Evaporation rate</b>	Not available.

# SAFETY DATA SHEET

<b>Flammability (solid, gas)</b>	Not applicable.
<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>	Similar to water.
<b>Vapor density</b>	Similar to water.
<b>Relative density</b>	1.05 ± 0.01
<b>Relative density temperature</b>	75 °F (23.89 °C)
<b>Solubilities</b>	100 % 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>	May cause burns of the gastrointestinal tract if swallowed.
<b>Inhalation</b>	Irritating to respiratory system.
<b>Skin contact</b>	Causes skin burns.
<b>Eye contact</b>	Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics** Causes skin and eye burns. Causes respiratory tract irritation. Symptoms may be delayed.

### Information on toxicological effects.

**Acute toxicity** May cause burns.

Components	Level	Type	Code	Species	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
	Acute	Inhalation	LC50	Rat	450 mg/l, 4 hrs
	Acute	Oral	LD50	Rat	560 mg/kg
Sodium dimethylbenzenesulfonate (CAS 1300-72-7)	Acute	Dermal	LD50	Rabbit	>2000 mg/kg
	Acute	Oral	LD50	Rat	7200 mg/kg

<b>Skin corrosion/irritation</b>	Causes skin burns.
<b>Serious eye damage/ eye irritation</b>	Causes serious eye damage.
<b>Respiratory sensitization</b>	Not classified.
<b>Skin sensitization</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.

### IARC Monographs. Overall Evaluation of Carcinogenicity

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



# SAFETY DATA SHEET

<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organ toxicity - single exposure</b>	Irritating to respiratory system.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.
<b>Chronic effects</b>	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

<b>Ecotoxicity</b>	The product contains a substance which is toxic to aquatic organisms.			
<b>Components</b>	Nonylphenol, ethoxylated, 9016-45-9			
<b>Aquatic</b>				
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
<b>Persistence and degradability</b>	The product is expected to be biodegradable.			
<b>Bioaccumulative potential</b>	Not known.			
	<b>Partition coefficient n-octanol / water log (Kow)</b>			
	Components		Results	
	2-Butoxyethanol (CAS 111-76-2)		0.83	
<b>Mobility in soil</b>	Not available.			
<b>Mobility in general</b>	The product is water soluble and may spread in water systems.			
<b>Other adverse effects</b>	None known.			

## Section 13 - Disposal considerations

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

## Section 14 - Transport information

<b>DOT</b>	
<b>UN number</b>	UN1824
<b>UN proper shipping name</b>	SODIUM HYDROXIDE SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	II
<b>Special precautions for users</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	B2, IB2, N34, T7, TP2
<b>Packaging exemption</b>	154
<b>Packaging non bulk</b>	202
<b>Packaging bulk</b>	242
<b>IATA</b>	
<b>UN number</b>	UN1824
<b>UN proper shipping name</b>	SODIUM HYDROXIDE SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Packaging group</b>	II
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	8L



# SAFETY DATA SHEET

<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>IMDG</b>	
<b>UN number</b>	UN1824
<b>UN proper shipping name</b>	SODIUM HYDROXIDE SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Packaging group</b>	II
<b>Environmental hazards</b>	No.
<b>Marine pollutant</b>	
<b>EmS</b>	F-A, S-B
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code</b>	This substance/mixture is not intended to be transported in bulk.

## Section 15 - Regulatory Information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
<b>TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)</b>	Not regulated.	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Not listed.	
	<b>Components</b>	<b>Result</b>
	Sodium Hydroxide (CAS 1310-73-2)	LISTED
	2-Butoxyethanol (CAS 111-76-2)	LISTED

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

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

**SARA 302 Extremely hazardous substance** Not listed.

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)** Not regulated.

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

### Other federal regulations

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants** Not regulated.

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

**US.New Jersey Worker and Community Right-to-Know Act** Components  
Sodium Hydroxide (CAS 1310-73-2)  
2-Butoxyethanol (CAS 111-76-2)





# SAFETY DATA SHEET

US.Pennsylvania RTK - Hazardous Substances

Components  
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 Notified 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	Toxic Substances Control Act (TSCA) Inventory	No
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	5/28/2022
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.

