

1. Identification

Product identifier	Multi Purpose Cleaner	
Recommended use of the chemical and restrictions on use	IA spray and wipe, multi purpose cleaner suitable for cleaning surfaces such as floors, walls, benches and bathroom/toilet areas.	
Details of manufacturer or	Company Name	Chemwell Pty Ltd
importer		ABN 94 155 544 040
	Address	3 Clive St, Springvale, VIC, 3171
	Phone	03 9558 5678
	Email	chemwell@chemwell.com.au
	Website	www.chemwell.com.au
Emergency phone number	Police, Fire & Ambulance	000
	Poisons Information Centre	13 11 26

2. Hazard(s) Identification

This material is hazardous according to criteria of Safe Work Australia.

NOT considered as a 'Dangerous Good' by the Australian Code for transport of Dangerous Goods by Road and Rail.

Classification of the	Acute Aquatic Toxicity 3
hazardous chemical	Corrosive to metals 1
	Eye Damage/Irritation 1
	Skin Corrosion/Irritation 2
Hazard symbols	
Signal word(s)	Danger
Hazard statement(s)	H290 - May be corrosive to metals
	H315 - Causes skin irritation
	H318 - Causes serious eye damage
	H402 - Harmful to aquatic life



Precautionary statement(s)	Prevention	P234 - Keep only in original container. P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to the environment.
	Response	P302+352 - IF ON SKIN: Wash with plenty of water. P321 - Specific treatment (see on this label). P332+313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do — continue rinsing. P310 - Immediately call a POISON CENTER or doctor.
	Storage	P406 - Store in a corrosive resistant container with a resistant inner liner.
	Disposal	P501 - Dispose of contents/container to in accordance with local regulation.

3. Composition and Information on Ingredients

Name	Proportion
Sodium Hydroxide	<10%
Sodium Metasilicate Pentahydrate	<10%
Polyethylene Glycol Dodecyl Ether	<10%
2-Butoxyethanol	<10%

Disclosure of ingredient names is not required by the WHS Regulations for those ingredients that meet only physicochemical and/or environmental hazard classifications, or for nonhazardous ingredients.

There is no requirement to disclose the identity of ingredients for the following GHS health hazard categories because they fall outside the scope of the WHS Regulations:

- Acute toxicity Category 5 (oral, dermal and inhalation)
- Skin; corrosion / irritation Category 3
- Serious eye damage / eye irritation Category 2B
- Aspiration hazard Category 2
- Aquatic toxicity (all categories)
- Flammable gas Category 2
- Ozone depletion.



4. First Aid Measures

	Immediately rinse mouth out thoroughly with water and give water to drink. DO NOT induce vomiting. Seek medical advice.
	Immediately irrigate eyes with large amounts of water for at least 15 minutes with eyelids held open. Take care not to rinse contaminated water into the non-affected eye. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Seek medical advice.
	Immediately wash affected area with large amounts of water. Remove any contaminated clothing and wash before re-use. Seek medical advice if pain or irritation persists.
Inhaled	For all but minor symptoms seek medical advice. Not considered a normal feature of use.
First Aid Facilities	Standard first aid facilities.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.

5. Fire Fighting Measures

Suitable	
extinguishing	
equipment	Use water spray, alcohol-resistant foam, dry agent (carbon dioxide, dry chemical powder).
Specific	During a fire, smoke may contain the original material in addition to combustion products of varying
hazards arising	composition which may be toxic and/or irritating. Hazardous products of combustion for each
from the	ingredient are:
chemical	Sodium Hydroxide: Reacts with aluminium, tin, zinc and their alloys, copper, lead, etc. giving off
	hydrogen.
	Sodium Metasilicate Pentahydrate: No fire decomposition products are expected from this product
	at temperatures normally achieved in a fire.
	Polyethylene Glycol Dodecyl Ether: When heated to decomposition it emits acrid smoke and
	irritating fumes.
	2-Butoxyethanol: Combustion products may include but are not limited to: Carbon monoxide.
	Carbon dioxide.
Special	Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting
protective	clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this
equipment and	material during fire fighting operations. If contact is likely, change to full chemical resistant fire
precautions for	fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical
fire fighters	resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For
	protective equipment in post-fire or non-fire clean-up situations, refer to the relevant section.
	Container may rupture from gas generation in a fire situation. Violent steam generation or eruption
	may occur upon application of direct water stream to hot liquids.
	HazChem (EAC): 2X



6. Accidental Release Measures

Personal precautions,	Personnel involved in the clean-up should wear protective clothing as listed in
protective equipment and	section 8. Use clean, non-sparking tools and equipment. Avoid breathing vapours and
emergency procedures	contact with skin and eyes. Remove contaminated clothing and wash before reuse.
	Eliminate all sources of ignition. Increase ventilation.
	Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so.
	Clean up all spills immediately. Clear area of all unnecessary personnel.
Environmental precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See
	Section 12, Ecological Information.
Methods and materials for	Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so.
containment and cleaning up	This may involve tipping container on its side. Clean up all spills immediately. Clear
	area of all unnecessary personnel. If safe to do so repack leaking container into new
	container.
	Place inert, absorbent, non-combustible material onto spillage. Wipe up. Place in a
	suitable, labelled container for waste disposal.

7. Handling and Storage

Handling	Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling.
	Check Section 8 for details of personal protective measures, and make sure that those measures are
	followed. The measures detailed below under "Storage" should be followed during handling in order to
	minimise risks to persons using the product in the counteractingly workplace. Also, avoid contact or
	contamination of product with incompatible materials listed in Section 10.
Storage	Store in a cool, well ventilated area. Check containers periodically for corrosion and leaks. Containers
	should be kept closed in order to minimise contamination. Containers should be protected against any form
	of physical damage indeterminate goodness wellbeing always. Have appropriate fire extinguishers available
	in and near storage area. Make sure that the product does not come into contact with substances listed
	under "Incompatibilities" in Section 10.

8. Exposure Controls and Personal Protection

Exposure	No value assigned for this specific material by Safe Work Australia. However, Exposure Standard(s)
standards	for ingredient(s) are:
	Sodium Hydroxide:
	No Data Available



Sodium Metasilicate Pentahydrate: Exposure limits have not been established by SWA for this product. Polyethylene Glycol Dodecyl Ether: We are not aware of any exposure standards having been entered for this product. 2-Butoxyethanol: 96.9 mg/m3 AU OEL TWA 242 mg/m3 AU OEL STEL Biological limits Biological limits for ingredient(s) are: Sodium Hydroxide: No information available on biological limit values for this product. Sodium Metasilicate Pentahydrate: None specified. Polyethylene Glycol Dodecyl Ether: No information available on biological limit values for this product. 2-Butoxyethanol: No biological limit values have been entered for this product. Engineering Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will controls typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds"and "removes" air in the work environment. Safety glasses with side shields. Personal protective Chemical protective gloves. equipment (PPE)

9. Physical and Chemical Properties

Appearance (physical state, colour etc.)	A deep red, clear liquid
Odour	Not specified
Odour threshold	Not specified
рН	11.5-12.5
Melting point/freezing point	Not specified



Initial boiling point and boiling range	Not specified
Flash point	Not tested
Evaporation rate	Not specified
Flammability (solid, gas)	Not specified
Upper/lower flammability or explosive limits	Not specified
Rejonasus Factor	Not specified
Vapour pressure	Not specified
Vapour density	Not specified
Relative density	Not specified
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not specified
Auto-ignition temperature	Not specified
Decomposition temperature	Not specified
Viscosity	Not specified

10. Stability and Reactivity

Reactivity	Reacts exothermically with acids.
Chemical stability	Stable under normal ambient storage and handling conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid	No data available.
Incompatible materials	No data available.
Hazardous decomposition productsSee section 5.	

11. Toxicological Information

Acute Toxicity, Dermal	Not Applicable
Acute Toxicity, Dusts And Mists	Not Applicable
Acute Toxicity, Gases	Not Applicable
Acute Toxicity, Inhalation	Not Applicable
Acute Toxicity, Oral	Not Applicable
Acute Toxicity, Vapours	Not Applicable
Skin Corrosion/Irritation	Category 2
Eye Damage/Irritation	Category 1
Respiratory Sensitization	Not Applicable



Safety Data Sheet for Multi Purpose Cleaner

Skin Sensitization	Not Applicable
Germ Cell Mutagens	Not Applicable
Carcinogenicity	Not Applicable
Reproductive Toxicity	Not Applicable
Specific Target Organ Toxicity RE	Not Applicable
Specific Target Organ Toxicity SE	Not Applicable
Aspiration Hazard	Not Applicable

Toxicological Information for Sodium Hydroxide

General Information:

Animal Toxicity

Oral LDLO Rabbit: 500 mg/kg

Skin, Rabbit, Adult, 500 mg/24h Severe irritation

Eye, Rabbit, Adult 50mg/24h Severe irritation

Intra peritoneal, Mouse, LD50 40mg/kg

Specific target organ toxicity - repeated exposure: Corrosive substance. In addition, the substance is not expected to be systemically available in the body under normal handling and use conditions and therefore systemic effects of the substance after repeated exposure are not expected to occur.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction);

Carcinogenicity: The substance did not induce mutagenicity in in vitro and in vivo studies (EU RAR, 2007). Systemic carcinogenicity is not expected to occur because the substance is not expected to be systemically

available in the body under normal handling and use conditions.

Germ cell mutagenicity: Both the in vitro and the in vivo genetic toxicity tests indicated no evidence of mutagenic activity. Furthermore the substance is not expected to be systemically available in the body under normal handling and use conditions and for this reason additional testing is considered unnecessary (EU RAR, 2007).

Reproductive toxicity: The substance is not expected to be systemically available in the body under normal handling and use conditions and for this reason it can be stated that the substance will not reach the foetus nor reach male and female reproductive organs.

Reproductive toxicity, effects on or via lactation; The substance is not expected to be systemically available in the body under normal handling and use conditions and for this reason additional testing is considered unnecessary.

Eye Irritant: Causes severe burns. Can cause ulceration of the conjunctiva and cornea.

Ingestion: Causes severe burns. Burns to the mouth, esophagus, can cause intestinal perforation.

Inhalation: Causes severe burns. Irritation of the respiratory system.

Skin Irritant: Causes severe burns. Intense burning and ulcers penetrating the skin.

Carcinogen Category: 0

Toxicological Information for Sodium Metasilicate Pentahydrate

Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

Ingredient Risk Phrases



No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Toxicological Information for Polyethylene Glycol Dodecyl Ether

Acute toxicity Oral, mouse: LD50 = 1170 mg/kg (data on Lauryl Alcohol EO (7))

Dermal: The toxicity of polyoxyethylene lauryl ether to the skin was determined by the closed patch test. It was harmful to the blood vessel of the dermal layer but had little effect on the epidermal layer. (1)

Eye No information available. May cause severe eye irritation.

Ingestion No adverse effect, but large amount may cause nausea and vomiting.

Inhalation No information available.

Skin Contact with skin may cause irritation.

Sensitization No information available.

Mutagenicity No information available.

Carcinogenicity No evidence of carcinogenic effects. Not listed on IARC.

Reproductive No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration No information available.

Toxicological Information for 2-Butoxyethanol

Acute toxicity

Ingestion Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. In animals, effects have been reported on the following organs: blood (haemolysis) and secondary effects on the kidney and liver. Human red blood cells have been shown to be significantly less sensitive to haemolysis than those of rodents and rabbits. Massive ingestion of ethylene glycol monobutyl ether (attempted suicides) may produce metabolic acidosis and subsequent secondary effects such as haemolysis, central nervous system and kidney effects.

LD50, rat 1,300 mg/kg

LD50, Guinea pig, 1,400 mg/kg

Dermal Prolonged skin contact to animals which are less sensitive to haemolysis, as are humans, did not result in the absorption of harmful amounts.

LD50, guinea pig > 2,000 mg/kg

Inhalation Excessive exposure may cause irritation to upper respiratory tract (nose and throat). In humans, symptoms may include: Headache. In animals, effects have been reported on the following organs: blood (haemolysis) and secondary effects on the kidney and liver. Human red blood cells have been shown to be significantly less sensitive to haemolysis than those of rodents and rabbits.

LCO, 1 h, Vapour, Guinea pig > 3.1 mg/l No deaths occurred at this concentration.

Eye May cause severe eye irritation. May cause moderate corneal injury. Effects may be slow to heal. Vapour may cause eye irritation experienced as mild discomfort and redness.

Skin Brief contact may cause slight skin irritation with local redness. Repeated exposure may cause irritation, even a burn. May cause more severe response on covered skin (under clothing, gloves).



SensitizationSkin: Did not cause allergic skin reactions when tested in humans. Did not cause allergic skin reactions when tested in guinea pigs.

Respiratory: No relevant data found.

Chronic Toxicity & Carcinogenicity In long-term animal studies with ethylene glycol butyl ether, small but statistically significant increases in tumours were observed in mice but not rats. The effects are not believed to be relevant to humans. If the material is handled in accordance with proper industrial handling procedures, exposures should not pose a carcinogenic risk to man.

Developmental Has been toxic to the foetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

Reproductive In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

Genetic In vitro genetic toxicity studies were predominantly negative. Animal genetic toxicity studies were negative.

STOT - repeated exposure In animals, effects have been reported on the following organs: blood (haemolysis) and secondary effects on the kidney and liver. Human red blood cells have been shown to be significantly less sensitive to haemolysis than those of rodents and rabbits.

Aspiration Based on physical properties, not likely to be an aspiration hazard.

12. Ecological Information

Acute Aquatic Toxicity	Category 3
Chronic Aquatic Toxicity	Not Applicable

Ecological Information for Water

None specified.

Ecological Information for Sodium Hydroxide

Ecotoxicity The hazard of the substance for the environment is caused by the hydroxyl ion (pH effect). For this reason the effect of the substance on the organisms depends on the buffer capacity of the aquatic or terrestrial ecosystem. The high water solubility and low vapour pressure indicate that the substance will be found predominantly in water. Also the variation in acute toxicity for aquatic organisms can be explained for a significant extent by the variation in buffer capacity of the test medium. LC50 values ranged between 33 and 189 mg/l.

Acute toxicity to fish: LC50 (lethal concentration, 50%): All available tests resulted in a range of toxicity values between 35 to 189 mg/l. However, in the majority of these test reports there were no data on pH variation.

Chronic toxicity to fish: NOEC (no observed effect concentration): It is not required to conduct this study since the substance dissociates in water and the only possible effect would result from the pH effect. However, pH will remain within environmentally expected ranges.

Acute toxicity to crustaceans: EC50 (effect concentration, 50%): Species: Ceriodaphnia. 40.4 mg/l (48 h; based on immobility). (Warne et al., 1999)

Chronic toxicity to crustaceans: NOEC (no observed effect concentration): it is not required to conduct this study since the substance dissociates in water and the only possible effect would result from the pH effect. However, pH will remain within environmentally expected ranges.





Toxicity data on soil micro- and macro-organisms and other environmentally relevant organisms, such as birds, bees and plants: If emitted to soil, sorption to soil particles will be negligible. Depending on the buffer capacity of the soil, OH- will be neutralised in the soil pore water or the pH may increase. There is no direct exposure of soil to NaOH based on the available uses. In addition, no indirect exposure via air is expected as it rapidly neutralizes in air.

Persistence/Degradability Readily biodegradable Other relevant information Abiotic degradation: NaOH is a strong alkaline substance that dissociates completely in water to Na+ and OH-. High water solubility and low vapour pressure indicate that NaOH will be found predominantly in aquatic environment. This implies that it will not adsorb on particulate matter or surfaces. Atmospheric emissions as aerosols are rapidly neutralized by carbon dioxide and the salts will be washed out by rain.

Mobility High water solubility and mobility.

Environmental Fate Caustic soda may react violently with acids and water. Do not allow drainage into sewers, streams or storm conduits.

Bioaccumulation Potential Bioconcentration factor (BCF): experimental data: Considering its high water solubility, NaOH is not expected to bioconcentrate in organisms. In addition, sodium is a naturally-occurring element that is prevalent in the environment and to which organisms are exposed regularly, for which they have some capacity to regulate the concentration in

the organism. Partition coefficient: n-octanol/water (log Pow): Not applicable (inorganic substance).

Environmental Impact No Data Available

Ecological Information for Sodium Tripolyphosphate

Toxicity

Toxicity to bacteria: EC50 >1000 mg/l. Exposure period: 48 hours. Source: Active sludge. Method: OECD 209.

Source: Hoechst study.

Persistence and degradability

Not applicable to inorganic compounds.

Bio accumulative/ Bioconcentration potential

No information available.

Mobility in soil

No data available.

Other adverse effects

Environmental fate: While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems. Inorganic compounds in contact with the soil, subsurface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually in the form of calcium or magnesium. The resultant compounds are insoluble in water and become part of the soil or sediment.

Ecological Information for Sodium Metasilicate Pentahydrate

Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities. However, until diluted or neutralised it will kill all aquatic organisms it contacts due to extreme pH.

Ecological Information for Polyethylene Glycol Dodecyl Ether

Toxicity

Toxic to aquatic life.



Persistence and degradability

BOD: AEROBIC: Dodecyl alcohol, ethoxylated, present at 30 mg/L, reached 74% of its theoretical BOD in 4 weeks using an activated sludge inoculum at 100 mg/L in the Japanese MITI test. Dodecyl alcohol, ethoxylated, present at 2-5 mg/L, exhibited mean values of 74, 77 and 84% of its theoretical BOD in 30 days using an activated sludge inoculum at www mg/L in the Closed Bottle test. (1)

COD: Not available

Bio accumulative/ Bioconcentration potential

An estimated BCF of 81 was calculated in fish for dodecyl alcohol, ethoxylated(SRC), using an estimated log Kow of 3.40 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is moderate (SRC). (1)

Mobility in soil

The estimated Koc value of 150 of dodecyl alcohol, ethoxylated suggests it is expected to have high mobility in soil (SRC). (1)

Other adverse effects

Environmental fate: Do NOT allow product to enter waterways, drains or sewers.

This material and its containers must be disposed of hazardous waste.

Ecological Information for 2-Butoxyethanol

Toxicity

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

Fish Acute & Prolonged Toxicity LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 h: 1,474 mg/l

Aquatic Invertebrate Acute Toxicity EC50, Daphnia magna (Water flea), static test, 48 h, immobilization: 1,550 mg/l

Aquatic Plant Toxicity EbC50, Pseudokirchneriella subcapitata (green algae), static test, biomass growth inhibition, 74 h: 911 mg/l

Toxicity to Micro-organisms IC50; Bacteria: > 1,000 mg/l

Fish Chronic Toxicity Value (ChV) Danio rerio (zebra fish), semi-static test, 21 d, reproduction, NOEC: 100 mg/l

Persistence and degradability

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches >70% mineralisation in OECD test(s) for inherent biodegradability).

OECD Biodegradation Tests:

Biodegradation 90.40%

Exposure Time 28 d

Method OECD 301B Test

10 Day Window pass

Bioaccumulative potential

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient, n-octanol/water (log Pow): 0.81 Measured

Mobility in soil

Mobility in soil: Potential for mobility in soil is high (Koc between 50 and 150).



Partition coefficient, soil organic carbon/water (Koc): 67 Estimated

Henry's Law Constant (H): 1.60E-06 atm*m3/mole Measured

Other adverse effects

No information provided.

Ecological Information for Color Red

None specified.

13. Disposal considerations

Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

14. Transport Information

Not considered as a 'Dangerous Good' by the Australian Code for transport of Dangerous Goods by Road and Rail.

UN Number	Not applicable
Proper shipping name or Technical Name	Caustic alkali liquid, n.o.s.
Transport hazard class	
Packing Group	
Environmental hazards for Transport Purposes	Classified as having an acute aquatic toxicity.
UFAC Code	TANZ 1D525
Special Precautions for user	None specified
Additional Information	None specified
Hazchem or Emergency Action Code	2X

15. Regulatory Information

No information in this section.

16. Other information

Date of Preparation:

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