

1. Identification

Product identifier	Drain Opener	
Recommended use of the chemical and restrictions on use	Full strength drain opener pand fats.	roduct. Clears drains plugged with oils
Details of manufacturer or importer	Company Name	Chemwell Pty Ltd 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.

Considered as a 'Dangerous Good' by the Australian Code for transport of Dangerous Goods by Road and Rail.

Classification of the		Corrosive to metals 1
hazardous chemical		Eye Damage/Irritation 1
		Skin Corrosion/Irritation 1
Hazard symbols		CORROSIVE 8
Signal word(s)		Danger
Hazard statement(s)		H290 - May be corrosive to metals
		H314 - Causes severe skin burns and eye damage
Precautionary	Prevention	P234 - Keep only in original container.
statement(s)		P260 - Do not breathe dust/fumes/gas/mist/vapours/spray.
		P264 - Wash thoroughly after handling.
		P280 - Wear protective gloves/protective clothing/eye protection/face
		protection.



Response	P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P363 - Wash contaminated clothing before reuse. P304+340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 - Immediately call a POISON CENTER or doctor.
	P321 - Specific treatment (see on this label). P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
Storage	P405 - Store locked up. 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	30-60%

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

Swallowed	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.
Skin	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.
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): 2R

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 containment and cleaning up	Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. 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.
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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
Biological limits	Biological limits for ingredient(s) are:
	Sodium Hydroxide:
	No information available on biological limit values for this product.
Engineering	Engineering controls are used to remove a hazard or place a barrier between the worker and the
controls	hazard. Well-designed engineering controls can be highly effective in protecting workers and will
	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.
Personal	Safety glasses with side shields.
protective	Chemical protective gloves.
equipment (PPE)	

9. Physical and Chemical Properties

Appearance (physical state, colour etc.)	A clear liquid
Odour	Not specified
Odour threshold	Not specified
рН	12.5-13.5
Melting point/freezing point	Not specified
Initial boiling point and boiling range	Not specified
Flash point	Not flammable
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 products	See 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 1
Eye Damage/Irritation	Category 1
Respiratory Sensitization	Not Applicable
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
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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

12. Ecological Information

Acute Aquatic Toxicity	Not Applicable
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

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

Considered as a 'Dangerous Good' by the Australian Code for transport of Dangerous Goods by Road and Rail.

1824
Sodium hydroxide solution
8
Not classified as having an acute aquatic toxicity.
TANZ 9E99
None specified
None specified
2R



15. Regulatory Information

No information in this section.

16. Other information

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