

1. Identification

Product identifier	Auto Dishwashing Liquid, Non Dangerous	
Recommended use of the	A highly concentrated, low foaming deterg	gent, formulated for use in commercial
chemical and restrictions	dishwashing machines. This product is des	igned to remove most stains. It will leave the
on use	machines contents dry and streak free.	
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 2
hazardous chemical		Eye Damage/Irritation 1
		Skin Corrosion/Irritation 2
Hazard symbols		
Signal word(s)		Danger
Hazard statement(s)		H315 - Causes skin irritation
		H318 - Causes serious eye damage
		H401 - Toxic to aquatic life
Precautionary	Prevention	P264 - Wash thoroughly after handling.
statement(s)		P280 - Wear protective gloves/protective clothing/eye protection/face protection.
		P273 - Avoid release to the environment.



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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 Disposal	P501 - Dispose of contents/container to in accordance with local regulation.

3. Composition and Information on Ingredients

Name	Proportion
Sodium Carbonate (Dense)	10-30%
Tetrapotassium Pyrophosphate	<10%
Sodium Silicate Solution	<10%
Sodium Hypochlorite 12.5% solution	<10%

Disclosure of ingredients is only required if an ingredient causes the classification of the chemical to include a hazard class and hazard category in the following list:

- Acute toxicity (oral, dermal and inhalation) Category 1 to 4
- Respiratory sensitiser Category 1
- Skin sensitiser Category 1
- Mutagenicity Category 1 or 2
- Carcinogenicity Category 1 or 2
- Toxic to reproduction Category 1 or 2
- Target organ toxicity (single exposure) Category 1 or 2
- Target organ toxicity (repeat exposure) Category 1 or 2
- Aspiration hazards Category 1
- Skin corrosion or irritation Category 1 or 2
- Serious eye damage or eye irritation Category 1 or 2A

4. First Aid Measures

Swallowed	Immediately rinse mouth out thoroughly with water and give water to drink. DO NOT induce	
	vomiting. Seek medical advice.	



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	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	Ingredient 1) Carbon oxides, Sodium oxides.
	Ingredient 2) Oxides of phosphorus, potassium oxides.
	Ingredient 3) Aqueous solution, not flammable under normal conditions of use. Flammable hydrogen
	gas may be produced on prolonged contact with metals such as aluminium, tin, lead and zinc.
	Ingredient 4) Under fire conditions this product may emit toxic and/or irritating vapours and gases
	including chlorine gas and hydrogen chloride gas.
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 emergency procedures	section 8. Use clean, non-sparking tools and equipment. Avoid breathing vapours and 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 forn
	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:
	Ingredient 1)
	Dusts not otherwise classified: 8hr TWA = 10 mg/m3



Ingredient 2) No Data Available Ingredient 3) Sodium Silicate: TWA - 5 mg/m3, STEL - 5 mg/m3 Ingredient 4) Chlorine: Peak Limitation = 3 mg/m3 (1 ppm) Sodium hydroxide: Peak Limitation = 2 mg/m3 **Biological limits** Biological limits for ingredient(s) are: Ingredient 1) None specified. Ingredient 2) No information available on biological limit values for this product. Ingredient 3) None specified. Ingredient 4) None specified. Engineering controls are used to remove a hazard or place a barrier between the worker and the Engineering 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. Chemical protective gloves. protective equipment (PPE)

9. Physical and Chemical Properties

Appearance (physical state, colour etc.)
Odour
Odour threshold
рН
Melting point/freezing point



Initial boiling point and boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
Upper/lower flammability or explosive limits
Rejonasus Factor
Vapour pressure
Vapour density
Relative density
Solubility
Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity

10. Stability and Reactivity

Reactivity	
Chemical stability	
Possibility of hazardous reactions	j
Conditions to avoid	
Incompatible materials	
Hazardous decomposition produc	cts

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



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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 Carbonate (Dense)

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are

Ingestion: No adverse effects expected, however, large amounts may cause nausea and vomiting.

Eye contact: An eye irritant.

Skin contact: Contact with skin may result in irritation.

Inhalation: Breathing in dust may result in respiratory irritation. Acute toxicity Oral LD50 (rat): 4090 mg/kg

Serious eye damage/irritation: Moderate irritant (rabbit).

Chronic effects: Not listed as carcinogenic according to IARC.

Toxicological Information for Tetrapotassium Pyrophosphate

General Information LD50 Dermal - rabbit - >4640mg/kg

Eyes - rabbit

Result: Moderate eye irritation

(OECD Test Guideline 405)

Eye Irritant Causes cause severe irritation. May cause redness, burns.

Ingestion May be harmful if swallowed. May cause burns to mouth and oesophagus, nausea, vomiting and diarrhoea.

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin Irritant May be harmful if absorbed through skin. Causes moderate skin irritation.

Carcinogen Category No Data Available

Toxicological Information for Sodium Silicate Solution

Acute Toxicity - Oral

LD50, rat: 1280 mg/kg (as 100%).

The acute oral toxicity of this product has not been tested. When sodium silicates were tested on a 100% solids basis, their single dose acute oral LD50 in rats ranged from 1280 mg/kg (above) to 3200 mg/kg. The acute oral lethality resulted from nonspecific causes. These products contain 30-60% sodium silicate this each overall product has an acute oral toxicity LD50 (rat): >2000 mg/kg.

Serious eye damage/irritation

Severe irritant. Produced corneal, iridal and conjunctival irritation.

Skin corrosion/irritation

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Irritant. When tested for primary skin irritation potential, this material produced irritation with a primary irritation index of 3 to abraded skin and 0 to intact skin. Human experience confirms that irritation occurs when this material gets on clothes at the collar, cuffs or other areas where abrasion may occur.

Subchronic/Chronic Toxicity

In a study of rats fed sodium silicate in drinking water for three months at 200, 600 and 1800 ppm, changes were reported in the blood chemistry of some animals but no specific changes to the organs of the animals due to sodium silicate administration were observed in any of the dosage groups. Another study reported adverse effects to the kidneys of dogs fed sodium silicate in their diet at 2.4 g/kg/day for 4 weeks, whereas rats fed the same dosage did not develop any treatment-related effects. Decreased numbers of births and survival to weaning was reported for rats fed sodium silicate in their drinking water at 600 and 1200 ppm.

Other Information

Special Studies: Sodium silicate was not mutagenic to the bacterium E. Coli when tested in a mutgenicity bioassay. There are no known reports of carcinogenicity of sodium silicates. Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation of kidney stones and other siliceous urinary calculi in humans. Sodium silicate is not listed by IARC, NTP or OSHA as a carcinogen.

Toxicological Information for Sodium Hypochlorite 12.5% solution

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:

Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Eye contact:

A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Skin contact:

Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

Inhalation:

Breathing in mists or aerosols may produce respiratory irritation. Delayed (up to 48 hours) fluid build-up in the lungs may occur.

Acute toxicity: No LD50 data available for the product. For the constituent SODIUM HYPOCHLORITE: Oral LD50 (mice): 5800 mg/kg

Serious eye damage/irritation:

Moderate irritant (rabbit). Standard Draize test

Chronic effects: No information available for the product.

12. Ecological Information

Acute Aquatic Toxicity	Category 2
Chronic Aquatic Toxicity	Not Applicable





Ecological Information for Ingredient 1

None specified.

Ecological Information for Ingredient 2

Ecotoxicity Avoid contaminating waterways.

Ecological Information for Ingredient 3

Ecotoxicity No ecological information available for this product

Persistence/Degradability No information available on persistence/degradability for this product.

Mobility No information available on mobility for this product.

Environmental Fate Do NOT let product reach waterways, drains and sewers

Bioaccumulation Potential No information available on bioaccumulation for this product

Environmental Impact No Data Available

Ecological Information for Ingredient 4

Ecological Information Avoid contaminating waterways. Soluble in water. Sinks and mixes with water. Only water will evaporate from this material.

Ecotoxicity The following data is reported for sodium silcates on a 100% solids basis: A 96 hour median tolerance for fish (Gambusia affnis) of 2320 ppm; a 96 hour median tolerance for water fleas (Daphnia magna) of 247 ppm; a 96 hour median tolerance for snail eggs (Lymnea) of 632 ppm; and a 96 hour median tolerance for Amphipoda of 160 ppm. These products contain 30-60% sodium silicate.

Persistence and degradability This material is not persistent in aquatic systems but its high pH when undiluted or unneutralised is acutely harmful to aquatic life. Diluted material rapidly depolymerises to yield dissolved silica in a form that is indistinguishable from natural dissolved silica. It does not contribute to BOD. This material does not bioaccumulate except in species that use silica as a structural material such as diatomes and siliceous sponges. Neitehr silica nor sodium will appreciable bioconcentrate up the food chain.

Mobility Expected to be mobile in soil. Diluted material rapidly depolymerises to yield dissolved silica in a form that is indistinguishable from natural dissolved silica.

Ecological Information for Ingredient 5

Ecotoxicity Avoid contaminating waterways.

For SODIUM HYPOCHLORITE:

Persistence/degradability: This material is biodegradable.

Aquatic toxicity: Very toxic to aquatic organisms.

48hr LC50 (fish): 0.07 - 5.9 mg/L.

Ecological Information for Ingredient 6

Ecotoxicity No Data Available

Persistence/Degradability No Data Available

Mobility No Data Available

Environmental Fate Avoid contaminating waterways, drains and sewers.

Bioaccumulation Potential No Data Available

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

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 277C
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

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