



## 2. HAZARDS IDENTIFICATION

**Hazardous Substance According to Criteria of NOHSC Australia  
Not classified as dangerous goods according to the ADG Code.**

<b>R -phrase(s)</b>	R36 - Irritating to eyes
<b>S -phrase(s)</b>	S 2 - Keep out of the reach of children S46 - If swallowed, seek medical advice immediately and show this container or label
<b>Safety Combination Phrases</b>	S24/25 - Avoid contact with skin and eyes

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Proportion (% w/w)
Sodium carbonate	497-19-8	30 - 60 %
Sodiumtripolyphosphate	7758-29-4	15 - 30 %
Disodium sulfate	7757-82-6	15 - 30 %
Sodium percarbonate	15630-89-4	1 - 5 %
Sodium Silicate, molar ratio >1.6 - <= 2.6	1344-09-8	1 - 5 %
Alcohols, C12-18, ethoxylated propoxylated	69227-21-0	< 1 %
1,2,3-Benzotriazole	95-14-7	< 1 %
d-Limonene	5989-27-5	< 0.1 %
Subtilisin	9014-01-1	< 0.1 %
Alpha Amylase	9000-90-2	< 0.1 %

The other ingredients to 100%w/w are classified as not hazardous according to NOHSC (Australia)

## 4. FIRST AID MEASURES

<b>General Advice</b>	<b>Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. in case of contact with eyes..</b>
<b>Skin Contact</b>	Wash off immediately with plenty of water.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Drink plenty of water. Consult a physician.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment.

## 5. FIRE-FIGHTING MEASURES

- Flash point:** See section 9
- Suitable Extinguishing Media:** The product is not flammable. All extinguishing media can be used.
- Precautions for fire-fighting** Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with the skin and the eyes.  
Use personal protective equipment.
- Environmental Precautions:** Prevent product from entering drains.  
Do not flush with water.
- Methods for Cleaning up:** Mop up spill and wash area with detergent and water.  
Prevent product from entering drains.  
Do not flush into surface water.

## 7. HANDLING AND STORAGE

- Handling:** Wear personal protective equipment. Ensure adequate ventilation.
- Storage:** Keep in properly labeled containers.  
Keep containers tightly closed in a cool, well-ventilated place  
Keep at temperatures below 40 °C / 104 °F.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- National Exposure Standards:** Exposure Standards have been set for the following ingredients:

Chemical Name	Australian Workplace Exposure Standards	New Zealand Workplace Exposure Standards
Subtilisin 9014-01-1		Ceiling: 0.00006 mg/m <sup>3</sup>

TWA - The Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers

- Biological Limit Values** No biological limit values allocated.
- Engineering Controls:** Ensure adequate ventilation, especially in confined areas.
- Eye Protection:** Safety glasses with side-shields.
- Hand Protection:** Protective gloves Permeation level 6, Penetration level 3 following EN374, taking into consideration the exposure of chemicals given in chapter 3.
- Eye/Face Protection:** Tightly fitting safety goggles
- Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Solid.
<b>Appearance:</b>	Powder
<b>Colour:</b>	Blue White
<b>Odour:</b>	perfumed, typical to meet the Tradename descriptor
<b>pH</b>	(10%) 11.2
<b>Interpretation of reserve</b>	not irritant, not corrosive
<b>Boiling Point/Range:</b>	No information available
<b>Solubility:</b>	300 g/L @ 20°C / 68°F
<b>Specific Gravity / Density [g/mL]:</b>	1.1 - 1.2 (untapped)
<b>Flash Point:</b>	Not applicable

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Strong sunlight for prolonged periods.
<b>Materials to Avoid:</b>	Keep away from acids.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon and unknown organic compounds.
<b>Polymerization:</b>	No information available.

## 11. TOXICOLOGICAL INFORMATION

### PRODUCT TOXICITY DATA

**LD<sub>50</sub> Oral:** 3611 mg/kg (rat) estimated  
**LD<sub>50</sub> Dermal:** >2000 mg/kg (rat) estimated  
**LC<sub>50</sub> Inhalation (Dust):** > 5 mg/L estimated (dust) mg/m<sup>3</sup>  
**LC<sub>50</sub> Inhalation (Vapor):** > 20mg/L (vapor) estimated ml/m<sup>3</sup>

### Acute Effects:

**Eye Irritation:** Irritating to eyes.  
**Skin Irritation** None expected during normal conditions of use.  
**Inhalation** None expected during normal conditions of use.  
**Ingestion:** Health injuries are not known or expected under normal use.  
**Sensitization** Not expected to be a skin sensitiser.  
**Chronic Effects:** No information available.  
**Specific Effects**  
**Carcinogenic Effects:** Not listed as carcinogenic by OSHA, NTP or IARC.  
**Mutagenic Effects** No information available.  
**Reproductive Toxicity:** No information available.  
**Additional Toxicity Information:** Information is based on available component data.

### COMPONENT TOXICITY DATA

Chemical Name	CAS-No	LD50 Oral - With Units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
Sodium carbonate	497-19-8	4090 mg/kg ( Rat )		
Sodiumtripolyphosphate	7758-29-4	3100 mg/kg ( Rat )	7940 mg/kg	
Disodium sulfate	7757-82-6	10000 mg/kg ( Rat )		
Sodium percarbonate	15630-89-4	1034 mg/kg ( Rat )		
Sodium Silicate, molar ratio >1.6 - <= 2.6	1344-09-8	1153 mg/kg ( Rat )	4640 mg/kg ( Rabbit )	
Alcohols, C12-18, ethoxylated propoxylated	69227-21-0	> 2000 mg/kg ( Rat )		
1,2,3-Benzotriazole	95-14-7	560 mg/kg ( Rat )	1 g/kg ( Rat )	
d-Limonene	5989-27-5	4400 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	
Subtilisin	9014-01-1	3700 mg/kg ( Rat )		
Alpha Amylase	9000-90-2	7500.001 mg/kg ( Rat )		

## 12. ECOLOGICAL INFORMATION

The ecotoxicity of this product has not been determined. However, the following component information is available.

### COMPONENT ECOTOXICITY DATA

The following component ecotoxicity data was considered to determine the overall ecotoxicity of this product.

*Sodium carbonate - 497-19-8*

<b>Freshwater Algae</b>	EC50 = 242 mg/L 120 h
<b>Freshwater Fish</b>	LC50 = 300 mg/L <i>Lepomis macrochirus</i> 96 h
<b>Water Flea</b>	EC50 = 265 mg/L 48 h

*Disodium sulfate - 7757-82-6*

<b>Freshwater Fish</b>	LC50 = 13 mg/L <i>Lepomis macrochirus</i> 96 h
<b>Water Flea</b>	EC50 = 2564 mg/L 48 h EC50 = 4547 mg/L 96 h

*Sodium Silicate, molar ratio >1.6 - </= 2.6 - 1344-09-8*

<b>Freshwater Fish</b>	LC50 = 3185 mg/L <i>Brachydanio rerio</i> 96 h
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*Alcohols, C12-18, ethoxylated propoxylated - 69227-21-0*

<b>Freshwater Algae</b>	EC50 (72h): 1-10 mg/L
<b>Freshwater Fish</b>	LC50 (96h): 10-100 mg/L
<b>Water Flea</b>	EC50 (48h): 1-10 mg/L

*d-Limonene - 5989-27-5*

<b>Freshwater Fish</b>	LC50 = 0.702 mg/L <i>Pimephales promelas</i> 96 h
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### SUMMARY OF PRODUCT ECOTOXICITY DATA

<b>Ecotoxicity:</b>	The preparation is non-dangerous in accordance with Directive 1999/45/EC
<b>Biodegradability and Persistence:</b>	Any contained surfactants are ultimately biodegradable according to the EU Detergent Regulation, 648/2004.
<b>Mobility:</b>	No information available

**Additional Ecological Information:** Contained surfactants are ultimately biodegradable according to the EU Detergent Regulation, 648/2004.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Methods and Containers:</b>	Bulk quantities of product must be disposed of according to Local, State and Federal regulations.
<b>Special Precautions for Landfill or Incineration:</b>	No information available

**14. TRANSPORT INFORMATION**

**General remarks**

Not classified as dangerous in the meaning of transport regulations. For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

**IATA**

Not regulated

**IMDG/IMO**

Not regulated

**ADG (Australian Road and Rail)**

Not regulated

## 15. REGULATORY INFORMATION

### Labelling

Symbol(s)

Xi - Irritant



R -phrase(s)

R36 - Irritating to eyes

Safety Combination Phrases

S24/25 - Avoid contact with skin and eyes

S -phrase(s)

 S 2 - Keep out of the reach of children  
 S46 - If swallowed, seek medical advice immediately and show this container or label

### Regulatory Status

Australia

Not applicable.

 Poisons Schedule No. (SUSDP)  
 Australia:

Not scheduled

AICS

Complies

New Zealand

 This product has been approved under HSNO covered by Cleaning Products,  
 Subsidiary Hazard Group Standard 2006 HSR002530

Approved Handler

Not required.

Tracking

Not required.

**16. OTHER INFORMATION**

**Key:** ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail  
AICS = Australian Inventory of Chemical Substances  
EC50 = median effective concentration  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
IMO = International Maritime Organization  
LC50 = concentration required to kill 50% of test organisms.  
LD50 = dose required to kill 50% of test organisms.  
NOHSC = National Occupational Health and Safety Commission (Australia)

**Reason for revision:** Update formula & product codes.

**Validation/Revision Date** 07-Aug-2009

This MSDS has been prepared according to the National Code of Practice for the Preparation of Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].

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**End of Safety Data Sheet**