

# Material Safety Data Sheet



TRICLEAN

## 1. Identification of the material and supplier

**Trade name of product** : TRICLEAN  
**ADG** : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)  
**Supplier** : ECOLAB PTY LTD (A.B.N. 59 000 449 990)  
6 Hudson Ave, Castle Hill NSW 2154  
Customer Service phone: 1 800 022 002  
Free Fax Number: 1 800 655 679

**Emergency telephone number** : 1 800 124 170

**Material uses** : Machine Warewashing Detergent

**Product dilution information** : Use up to 20% in water

**Date of issue** : 24 April 2012

## 2. Hazards identification

**Statement of hazardous/dangerous nature** : **Product AS SOLD**  
: **Classified as hazardous** according to the criteria of Safe Work Australia and **classified as dangerous goods** according to the ADG Code.

**Classification** : Xi - Irritant

**Risk phrases** : R36/38- Irritating to eyes and skin.

**Safety phrases** : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28- After contact with skin, wash immediately with plenty of water.  
S37/39- Wear suitable gloves and eye/face protection.  
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Product AT USE DILUTION**  
**Not classified as hazardous** according to the criteria of Safe Work Australia **nor classified as dangerous goods** according to the ADG Code.

Not applicable.

Not classified.

Not applicable.

## 3. Composition/information on ingredients

### Product AS SOLD

Ingredient name	CAS number	Concentration % (w/w)
disodium metasilicate	6834-92-0	<10

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

### Product AT USE DILUTION

Ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

## 4. First-aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	Rinse with plenty of running water. Get medical attention if symptoms occur.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.	In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse.
<b>Inhalation</b>	: Remove to fresh air. Get medical attention if symptoms occur.	Remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26).	Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26).
<b>Notes to physician</b>	: No specific treatment. Treat symptomatically.	No specific treatment. Treat symptomatically.

## 5. Fire-fighting measures

	Product AS SOLD
<b>Hazchem code</b>	: 2X
<b>Extinguishing media</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Fire-fighting media and instructions</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Fire/explosion hazards</b>	: No specific hazard.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides

## 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
<b>Environmental precautions</b>	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Methods for cleaning up</b>	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 6. Accidental release measures

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
<b>Handling</b>	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
<b>Storage</b>	: Keep container tightly closed. Keep container in a cool, well-ventilated area.	Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8. Exposure controls/personal protection

### Product AS SOLD

#### Occupational exposure limits

Ingredient name	Exposure limits
sodium hydroxide	<b>Safe Work Australia (Australia, 8/2005).</b> PEAK: 2 mg/m <sup>3</sup> 15 minute(s).

	Product AS SOLD	Product AT USE DILUTION
<b>Engineering measures</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
<b>Personal protection</b>		
<b>Eyes</b>	: Eye protection should be used when splashing may occur.	No protective equipment is needed under normal use conditions.
<b>Hands</b>	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
<b>Respiratory</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Skin</b>	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	No protective equipment is needed under normal use conditions.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	

## 9. Physical and chemical properties

	Product AS SOLD
Physical state	: Liquid.
Colour	: Yellow
Odour	: Odourless
pH	: 13 to 14[Conc. (% w/w): 100%]
Flash point	: > 100°C Product does not support combustion.
Boiling point	: >100°C (>212°F)
Relative density	: 1.12 to 1.14
Solubility	: Easily soluble in the following materials: cold water and hot water.

### Product AT USE DILUTION

Liquid.  
Yellow [Light]  
Odourless  
13 to 14  
> 100°C

## 10. Stability and reactivity

	Product AS SOLD
Stability	: The product is stable.
Conditions to avoid	: No specific data.
Materials to avoid	: Reactive or incompatible with the following materials: metals and acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Potential acute health effects

	Product AS SOLD	Product AT USE DILUTION
Inhalation	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Ingestion	: Exposure can cause nausea, headache and vomiting.	No known significant effects or critical hazards.
Skin contact	: Irritating to skin.	No known significant effects or critical hazards.
Eye contact	: Irritating to eyes.	No known significant effects or critical hazards.

### Potential chronic health effects

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

## 12. Ecological information

### Product AS SOLD

#### Ecotoxicity data

Product/ingredient name	Result	Species	Exposure
disodium metasilicate	Acute EC50 4857 mg/L Acute LC50 3185 mg/L Acute LC50 2320 mg/L		48 hours 96 hours 96 hours

Persistence/degradability	: Not available.
Mobility	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

## 13. Disposal considerations

<b>Methods of disposal</b>	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
	: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.	The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

### Product AS SOLD

Regulation	UN number	Proper shipping name	Classes	Packing group	Additional information
ADG	UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)	8	III	<b>Hazchem code</b> 2X
IMDG	UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (Sodium metasilicate)	8	III	<b>Emergency schedules (EmS)</b> F-A, S-B

### Product AT USE DILUTION

Not intended for transport.

## 15. Regulatory information

<b>AU Classification</b>	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
	: <b>Classified as hazardous</b> according to the criteria of Safe Work Australia and <b>classified as dangerous goods</b> according to the ADG Code. Xi - Irritant R36/38- Irritating to eyes and skin.	<b>Not classified as hazardous</b> according to the criteria of Safe Work Australia <b>nor classified as dangerous goods</b> according to the ADG Code. Not applicable. Not classified.

**Australia inventory (AICS)** : All substances are listed on AICS or exempt.

### Standard for the Uniform Scheduling of Medicines and Poisons

S5

### Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u>	<u>Schedule</u>
No listed substance	

## 16. Other information

<b>Prepared by</b>	Regulatory Affairs
<b>Date of previous issue</b>	: No previous validation
<b>References</b>	: <ul style="list-style-type: none"><li>-ADG Code - Australian Transport of Dangerous Goods</li><li>-Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment</li><li>-Approved Criteria for Classifying Hazardous Substances</li><li>-List of Designated Hazardous Substances</li><li>-National Code of Practice for the Labelling of Workplace Substances</li><li>-National Code of Practice for the Preparation of Material Safety Data Sheets</li><li>-National Model Regulations for the Control of Scheduled Carcinogenic Substances</li><li>-National Model Regulations for the Control of Workplace Hazardous Substances</li><li>-Standard for the Uniform Scheduling of Medicines and Poisons</li></ul>

### Disclaimer

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**