

## RETREAT

### 1. Identification of the material and supplier

#### Names

Product name : RETREAT  
 ADG : Not regulated.  
 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

#### Uses

Material uses : Heavy duty cleaner  
 Date of issue : 07-September-2010

### 2. Hazards identification

Statement of hazardous/dangerous nature : Classified as hazardous according to the criteria of Safe Work Australia and not classified as dangerous goods according to the ADG Code.  
 Risk phrases : R38- Irritating to skin.  
 R41- Risk of serious damage to eyes.  
 Safety phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37/39- Wear suitable gloves and eye/face protection.  
 S46- If swallowed, seek medical advice immediately and show this container or label.

### 3. Composition/information on ingredients

Ingredient name	CAS number	Concentration
Sodium hydroxide	1310-73-2	<10
Sodium hypochlorite	7681-52-9	<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%.

### 4. First-aid measures

#### First-aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.  
 Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.  
 Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.  
 Ingestion : 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). Get medical attention immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.  
 Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

## 5 . Fire-fighting measures

- Extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Fire/explosion hazards** : No specific hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Hazardous decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 halogenated compounds  
 metal oxide/oxides

## 6 . Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : 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). May be harmful to the environment if released in large quantities.
- Methods for cleaning up** : 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.

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

## 7 . Handling and storage

- Handling** : 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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Do not add water directly to product. Slowly stir product into water.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.  
 Keep away from incompatibles, such as acid

## 8 . Exposure controls/personal protection

### Occupational exposure limits

**Ingredient name**

sodium hydroxide

chlorine

**Exposure limits**

**Safe Work Australia (Australia, 8/2005).**

PEAK: 2 mg/m<sup>3</sup> 15 minute(s).

**Safe Work Australia (Australia, 8/2005).**

PEAK: 3 mg/m<sup>3</sup> 15 minute(s).

PEAK: 1 ppm 15 minute(s).

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- Engineering measures** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Engineering controls may be required to control the primary or secondary risks associated with this product.
- Hygiene measures** : 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.

### Personal protection

- Eyes** : Safety glasses with side-shields
- Hands** : Wear any impervious glove. Recommended: Elbow length PVC gloves.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use. If ventilation is inadequate, use respirator that will protect against organic vapour and dust/mist. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.
- Skin** : No special protective clothing is required.

## 9 . Physical and chemical properties

- Physical state** : Liquid.
- Colour** : Light Green.
- Odour** : Fragrance-like.
- Boiling point** : 100°C (>212°F)
- Melting point** : Not available.
- Vapour pressure** : Not available.
- Specific gravity** : 1.09 to 1.11
- Relative density** : 1.09 to 1.11 g/cm<sup>3</sup> [20°C (68°F)]
- Flash point** : Product does not support combustion.
- Vapour density** : Not available.
- pH** : 2.5 to 14 [Conc. (% w/w): 100%]
- Solubility** : Easily soluble in the following materials: cold water and hot water.

## 10 . Stability and reactivity

- Stability** : The product is stable under normal ambient conditions of temperature and pressure.
- Conditions to avoid** : Direct sunlight.
- Materials to avoid** : Acid
- Hazardous decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
metal oxide/oxides
- Hazardous Reactions** : Contact with acids liberates toxic gas.

## 11 . Toxicological information

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Exposure can cause nausea, headache and vomiting.
- Skin contact** : Moderately irritating to the skin.
- Eye contact** : Severely irritating to eyes.

### Potential chronic health effects

- Carcinogenicity** : No known significant effects or critical hazards.

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

## 12 . Ecological information

### Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>	
sodium hypochlorite	Daphnia	48 hours	Acute EC50 1.57 mg/L	
	Daphnia	48 hours	Acute EC50 0.17 mg/L	
	Daphnia	48 hours	Acute EC50 0.04 mg/L	
	Fish	96 hours	Acute LC50 0.2 mg/L	
	Fish	96 hours	Acute LC50 0.09 mg/L	
	Fish	96 hours	Acute LC50 0.059 mg/L	
	sodium hydroxide	Daphnia	48 hours	Acute EC50 156 mg/L
		Daphnia	48 hours	Acute EC50 45.4 mg/L
		Daphnia	48 hours	Acute EC50 40 mg/L
Fish		96 hours	Acute LC50 189 mg/L	
	Fish	96 hours	Acute LC50 72 mg/L	

**Persistence/degradability** : Not available.  
**Mobility** : Not available.  
**Other adverse effects** : Very toxic to aquatic organisms.

## 13 . Disposal considerations

**Methods of disposal** : Do not reuse product containers. The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. 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.

## 14 . Transport information

Regulation	UN number	Proper shipping name	Class	Packing group	Additional information
ADG	Not regulated.			-	-
IMDG	Not regulated.			-	-

## 15 . Regulatory information

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

**AU Classification** : Xi - Irritant  
R38- Irritating to skin.  
R41- Risk of serious damage to eyes.

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

S5

### Control of Scheduled Carcinogenic Substances

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

**16 . Other information**

- Prepared by** : Regulatory Affairs
- Date of previous issue** : ~~2~~-August-2010
- Change Made** : Update MSDS, change pH and SG to range
- References** : -ADG Code - Australian Transport of Dangerous Goods  
-Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment  
-Approved Criteria for Classifying Hazardous Substances  
-List of Designated Hazardous Substances  
-National Code of Practice for the Labelling of Workplace Substances  
-National Code of Practice for the Preparation of Material Safety Data Sheets  
-National Model Regulations for the Control of Scheduled Carcinogenic Substances  
-National Model Regulations for the Control of Workplace Hazardous Substances  
-Standard for the Uniform Scheduling of Drugs and Poisons

**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.*