



ADVIL PTY LTD  
ABN 75 006 310 710  
121 Cecil Street, South Melbourne, VIC 3205 Australia  
P.O. Box 987, South Melbourne, VIC 3205 Australia  
Tel: +61 3 9693 0500 Fax: +61 3 9686 9955

## MATERIAL SAFETY DATA SHEET

**Product Name:** CLR CALCIUM LIME RUST REMOVER ENHANCED FORMULA

**Date of Issue:** 4 July 2011

**Manufacturer Code:** CL

**Distributor:** Advil Pty Ltd

**Contact Details:** 121 Cecil Street  
South Melbourne Victoria 3205, Australia

**Chemical Family:** Aqueous Acidic Cleaner  
**Formula:** Proprietary Mixture

### HAZARDS IDENTIFICATION

**STATEMENT OF HAZARDOUS NATURE:**  
HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the  
Criteria of NOHSC, and the ADG Code.

**PHYSICAL STATE:** Liquid  
**COLOR:** Colourless and clear  
**ODOR:** Slightly vinegary

**WARNING OVERVIEW:** Irritating to eyes, skin, respiratory tract and mucous  
membranes. Risk of burns to eyes, skin, and to the respiratory tract.  
May be harmful or fatal if swallowed.  
Use with adequate ventilation.  
Avoid breathing mist or dust.  
Keep container closed when not in use.

**POTENTIAL HEALTH EFFECTS**  
**EYE CONTACT:** Severe irritation and blurred vision. Effects may vary depending on  
length of exposure, solution concentration, and first aid measures. Prolonged contact  
may cause permanent damage.

**SKIN CONTACT:** Causes skin irritation. Prolonged contact may cause dermatitis,  
and itching.

**INHALATION:** Irritation, breathing difficulties, headaches, dizziness.

**INGESTION:** Oral burns, vomiting and gastrointestinal disturbance.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO PRODUCT:**

Eye, skin, and respiratory disorders.

DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCT AS TOXIC FUMES MAY RESULT.

KEEP OUT OF REACH OF CHILDREN.

**COMPOSITION /INFORMATION ON INGREDIENTS**

Component	CAS#	OSHA Hazard	% by Weight
1. Water	7732-18-5	NO	70-81
2. Lactic Acid	79-33-4	YES	15-20
3. Gluconic Acid	526-95-4	NO	2-4
4. Lauramine Oxide	1643-20-5	NO	1-4
5. Propylene Glycol Normal Butyl Ether	5131-66-8	YES	1-2

**FIRST AID MEASURES**

**EYE CONTACT:** In case of eye contact, immediately rinse eye thoroughly with plenty of water. Remove contact lenses, and continue rinsing for at least 15 minutes. Get immediate medical attention.

**SKIN CONTACT:** Can be irritating to skin, prolonged contact can be more severe, no adverse effects during normal usage. In case of skin contact, rinse area for at least 15 minutes. Remove contaminated clothing and shoes, wash thoroughly before re-use. Get immediate medical attention if irritation persists.

**INHALATION:** If inhaled, move the individual to fresh air. If breathing is difficult for the individual, GET MEDICAL ATTENTION IMMEDIATELY.

**INGESTION:** DO NOT induce vomiting. If fully conscious, drink plenty of water. CALL A HEALTH PROFESSIONAL IMMEDIATELY. NEVER give an unconscious person anything to ingest.

**FIRE FIGHTING MEASURES**

**FLAMMABILITY:** Not flammable **FLASH**

**POINT:** None (100°C): **EXPLOSIVE**

**LIMITS IN AIR:** Not available

**EXTINGUISHING MEDIA:** Not flammable. Use appropriate media for area. Water spray, dry chemical, alcohol foam or carbon dioxide.

**FIRE FIGHTING METHODS:** Evacuate area of personnel. Wear protective approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Run-off of large quantities of product from fire control may cause pollution. Contact appropriate agencies.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Monoxide. Thermal decomposition can lead to irritating gases and vapors.

**FIRE AND EXPLOSION HAZARDS:** None known.

### **ACCIDENTAL RELEASES MEASURES**

**Steps to be taken in Case Material is Released or Spilled:** Avoid contact with skin and eyes

**Small Spill:** No special clean-up procedure is necessary for small (less than 3 liters) spills. Flush spill area with water. Wear rubber gloves.

**Large Spill:** Use personal protection.

Isolate area, and deny entry to unnecessary and unprotected personnel. Damp spill, and absorb with earth, sand or similar material. Place in non-leaking containers. Dispose of collected material according to local, state, and federal regulations. Flush residue with large amount of water. Avoid direct discharge to sewers and surface waters.

### **HANDLING AND STORAGE**

**STORAGE:** Store in cool, well-ventilated area, away from heat. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Store in original container in a secure area away from children and pets.

**HANDLING:** Avoid contact with eyes, skin or clothing. May be harmful or fatal if swallowed. Use with adequate ventilation. Avoid breathing vapors or mist. Do not eat, drink, or smoke in work area. Wash hand thoroughly after use.

Consumer size containers should be rinsed and recycled. Empty containers may contain product residue in form of vapor, dried product, or liquid, and can be dangerous.

**DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE THESE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY.**

**DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS AS TOXIC FUMES MAY RESULT.**

### **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**VENTILATION REQUIREMENT:** Avoid prolonged breathing mists or dusts of this product. Use with adequate ventilation. Do not use in closed or confined spaces.

**RESPIRATORY PROTECTION:** Not required during normal household use. If product is used in an industrial setting, respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If mist or dust is present, wear approved respirator for dusts and mists, approved full-face piece positive-pressure and air-supplied respirator.

Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of product.

**EYE PROTECTION:** Not required during normal household usage. Industrial users wear safety goggles.  
Do not wear contact lenses. Emergency responders should wear full eye and face protection.

**SKIN PROTECTION:** Rubber gloves with protective cuff. Emergency responders should wear impermeable gloves.

**OTHER PROTECTION:** Emergency responders should wear chemical type (impermeable) protective clothing and footwear where direct contact with chemicals in this product is possible.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly with soap and water after use or handling.

#### **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling point:</b> 100° C / 212° F	<b>Specific Gravity:</b> 1.04 – 1.06
<b>Vapor Pressure:</b> N.D.	<b>Percent Volatiles:</b> ~78.6% (Calculated)
<b>Freezing Point:</b> N.D.	<b>Evaporation Rate:</b> N.D. (nBuAc=1)
<b>Melting Point:</b> N.D.	<b>VOC (Wt%):</b> <1.5 (Calculated)
<b>Vapor Density (mm Hg):</b> N.D.	<b>VOC (LBS/GAL):</b> <0.13 (Calculated)
<b>pH:</b> 2.10-2.30	<b>Solubility in Water:</b> 100%

#### **STABILITY AND REACTIVITY**

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Avoid elevated temperatures.

**INCOMPATIBLE MATERIALS:** Strong-oxidizing agents, metals, acids, and bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition can lead to release of irritating gases and vapors and carbon oxides.

**POSSIBILITY OF HAZARDOUS REACTIONS:** No data.

#### **TOXICOLOGICAL INFORMATION**

**LD50 ORAL:** N.E.

**LD50 SKIN:** N.E.

**LC50 INHALATION:** N. E.

#### **ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** No data available.

**CHEMICAL FATE INFORMATION:** 28-day biodegradation = 60%.

The product is biodegradable.

**DISPOSAL CONSIDERATIONS**

**HAZARDOUS WASTE NUMBER:** D002

**DISPOSAL METHOD:** Dispose of in a permitted hazardous waste management facility following all local, state, and federal regulations.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.

Follow label warnings; since containers may retain some residue of the product. Processing, use or contamination of this product may change the waste management options. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. State and local disposal regulations may differ from federal disposal regulations.

**TRANSPORTATION INFORMATION**

**Identification Number:** N.A.

**Packaging Group:** N.A.

**UN Number:** N.A.

**TDG Classification:** Not Regulated

**IMDG Classification:** Not Regulated

**IATA Classification:** Passenger – Not Regulated

**OTHER INFORMATION**

**NFPA Rating System:** Health - 1 / Flammability - 0 / Reactivity - 0 / Special Hazard - None

**Precautions to be taken in Handling and Storing:** Avoid exposure to excess heat, and prevent from freezing.

**Other Precautions:** None required.

**MSDS ABBREVIATIONS:**

N. A.: Not Applicable

N. D.: Not Determined

N.E.: Not Established

VOC: Volatile Organic Compound

**EMERGENCY CONTACT**

<b>POLICE</b>	<b>000</b>
<b>AMBULANCE</b>	<b>000</b>
<b>FIRE</b>	<b>000</b>
<b>POISONS INFORMATION CENTRE AUSTRALIA</b>	<b>131 126</b>
<b>POISONS INFORMATION CENTRE NEW ZEALAND</b>	<b>0800 764 766</b>

\*\*\*\*\* END OF MSDS\*\*\*\*\*