



## SAFETY DATA SHEET

Product Name **CLEARCLEAN PLUS**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** DIVERSEY NEW ZEALAND LTD  
**Address** 3 Diversey Lane, Wiri, Manukau, NEW ZEALAND, 2025  
**Telephone** +64 9 278 2119  
**Fax** +64 9 278 4286  
**Emergency** 0800 243 622  
**Web Site** <http://www.diversey.com>  
**Synonym(s)** ALL PACK SIZES  
**Use(s)** ALKALINE CLEANING AGENT • CLEANING AGENT  
**SDS Date** 08 Mar 2010

### 2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES [CLASSIFICATION] REGULATIONS 2001

#### HSNO CLASSIFICATION

8.1A Substances that are corrosive to metals.  
8.2C Substances that are corrosive to dermal tissue.  
8.3A Substances that are corrosive to ocular tissue.  
9.3C Substances that are harmful to terrestrial vertebrates.

#### HAZARD STATEMENT

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H433 Harmful to terrestrial vertebrates.

#### PREVENTION STATEMENT

P102 Keep out of reach of children (applies only where the substance is available to the general public).  
P103 Read label before use (applies only where the substance is available to the general public).  
P234 Keep only in original container.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P273 Avoid release to the environment. This statement does not apply where this is the intended use.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### RESPONSE STATEMENT

P101 If medical advice is needed, have product container or label at hand (applies only where the substance is available to the general public).  
P310 Immediately call a POISON CENTER or doctor/physician.  
P321 Specific treatment is advised - see first aid instructions.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303 + P361 + P353    IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340            IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338    IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**STORAGE STATEMENT**

P405                      Store locked up.  
P406                      Store in corrosive resistant container with a resistant inner liner.

**DISPOSAL STATEMENT**

P501                      In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

**CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE:DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA**

<b>UN No.</b>	3266	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	III	<b>Hazchem Code</b>	2X	<b>EPG</b>	8A1

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

Ingredient	CAS No.	Content
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	<10%
SODIUM HYDROXIDE	1310-73-2	<2%
NON HAZARDOUS INGREDIENTS	Not Available	>60%
SODIUM TRIPOLYPHOSPHATE	7758-29-4	<5%

**4. FIRST AID MEASURES**

**Eye**                      If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre on 0800 764 766 (0800 POISON) or +643 479 7248 (New Zealand) or a doctor, or for at least 15 minutes.

**Inhalation**            If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin**                     If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre on 0800 764 766 (0800 POISON) or +643 479 7248 (New Zealand) or a doctor.

**Ingestion**             For advice, contact a Poisons Information Centre on 0800 764 766 (0800 POISON) or +643 479 7248 (New Zealand) or a doctor (at once).

**Advice to Doctor**    Treat symptomatically

**First Aid Facilities**   Eye wash facilities should be available.

**5. FIRE FIGHTING MEASURES**

**Flammability**        Non flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

**Fire and Explosion**    Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Extinguishing**        Prevent contamination of drains or waterways.

**Hazchem Code**        2X

**6. ACCIDENTAL RELEASE MEASURES**

**Spillage**              Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

**7. STORAGE AND HANDLING**

**Storage**                Store in a cool, dry, well ventilated area, removed from oxidising agents, acids, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in

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use. Large storage areas should have appropriate ventilation systems.

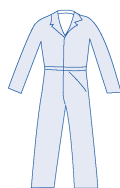
**Handling**    Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	2-Butoxyethanol	WES (NZ)	25	121	--	--
	Sodium hydroxide	WES (NZ)	--	2	--	--

**Engineering Controls**    Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PPE**    Wear splash-proof goggles, rubber or PVC gloves and coveralls. Where an inhalation risk exists, wear: a Type A (Organic vapour) respirator. If spraying, wear: a Type A-Class P1 (Organic gases/vapours and Particulate) respirator.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	TRANSPARENT RED LIQUID	<b>Solubility (Water)</b>	SOLUBLE
<b>Odour</b>	SLIGHT SOLVENT ODOUR	<b>Specific Gravity</b>	1.038 - 1.046
<b>pH</b>	12.5 - 14.0 (1% solution)	<b>% Volatiles</b>	> 60 % (Water)
<b>Vapour Pressure</b>	17.5 mm Hg @ 20°C	<b>Flammability</b>	NON FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	NOT RELEVANT
<b>Boiling Point</b>	100°C (Approximately)	<b>Upper Explosion Limit</b>	NOT RELEVANT
<b>Melting Point</b>	< 0°C	<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Evaporation Rate</b>	AS FOR WATER		

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under recommended conditions of storage.
<b>Conditions to Avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Material to Avoid</b>	Incompatible with oxidising agents (eg. hypochlorites) and acids (eg. nitric acid).
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.
<b>Polymerization</b>	Polymerization will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Health Hazard Summary</b>	This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Chronic exposure to some glycols may result in liver and kidney damage. The low vapour pressure of this product reduces the potential for an inhalation hazard.
<b>Eye</b>	Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
<b>Inhalation</b>	Over exposure may result in irritation of the nose and throat, coughing, nausea and headache. Due to the low vapour pressure, an inhalation hazard is not anticipated with normal use.
<b>Skin</b>	Contact may result in irritation, redness, pain, rash, dermatitis and possible burns.
<b>Ingestion</b>	Ingestion may result in ulceration and burns to the mouth and throat, nausea, vomiting, abdominal pain, diarrhoea and liver/kidney damage.
<b>Toxicity Data</b>	ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2) LC50 (Inhalation): 700 ppm (mouse) LD50 (Ingestion): 300 mg/kg (rabbit)

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LD50 (Skin): 230 mg/kg (guinea pig)  
TCLo (Inhalation): 100 ppm (human)  
TDLo (Ingestion): 7813 uL/kg (woman)  
SODIUM HYDROXIDE (1310-73-2)  
LD50 (Intraperitoneal): 40 mg/kg (mouse)  
LDLo (Ingestion): 1.57 mg/kg (human)  
SODIUM TRIPOLYPHOSPHATE (7758-29-4)  
LD50 (Ingestion): 3100 mg/kg (mouse)  
LD50 (Intraperitoneal): 525 mg/kg (rat)  
LD50 (Intravenous): 71 mg/kg (mouse)  
LD50 (Subcutaneous): 750mg/kg (guinea pig)

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**12. ECOLOGICAL INFORMATION**

**Environment**      ATMOSPHERE: Vapour phase glycols are expected to degrade fairly rapidly by reaction with hydroxyl radicals (eg half-life 32 hours for propylene glycol). Removal from air by rainfall is possible. WATER: Should degrade relatively rapidly via biodegradation. SOIL: If released to soil, relatively rapid biodegradation should also occur. Leaching to groundwater may occur.

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**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal**      Neutralise with dilute acid (eg. 3 mol/L hydrochloric acid) or similar. For small amounts absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information.

**Legislation**      Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**



**CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE:DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA**

<b>Shipping Name</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.			
<b>UN No.</b>	3266	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b> None Allocated
<b>Packing Group</b>	III	<b>Hazchem Code</b>	2X	<b>EPG</b> 8A1

**IATA**

<b>Shipping Name</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.			
<b>UN No.</b>	3266	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b> None Allocated
<b>Packing Group</b>	III			

**IMDG**

<b>Shipping Name</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.			
<b>UN No.</b>	3266	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b> None Allocated
<b>Packing Group</b>	III			

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**15. REGULATORY INFORMATION**

**Approval Code**      HSR002526

**Group Name**      Cleaning Products (Corrosive) Group Standard 2006

**HSNO Controls**      Refer to the ERMA website for more information: [www.ermanz.govt.nz](http://www.ermanz.govt.nz)

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**16. OTHER INFORMATION**

**Additional Information**      RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

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EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**ABBREVIATIONS:**

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European INventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m<sup>3</sup> - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Report Status**

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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**End of Report**