

MATERIAL SAFETY DATA SHEET

Pacific Dishwasher Detergent

SECTION 1.

Identification of the Substance and Supplier

PRODUCTS APPLICABLE	Pacific Dishwasher Detergent: 5L, 20L, 200L
PRODUCT USE	Detergent for automatically-dosed dishwashers
SUPPLIER	Simms Jones Ltd, 217 Lichfield St, Christchurch
PHONE	(03) 366 5769
FAX	(03) 365 4727
E-MAIL	cleanser@simmsjones.co.nz
EMERGENCY CONTACT	Craig Keenan 027 291 6181

SECTION 2.

Hazards Identification

HAZARDS

Acute toxicity: Oral Category 4, Acute toxicity: Skin Category 5, Corrosive to metals,
Skin corrosion/irritation Category 1B, Serious eye damage/eye irritation Category 1, Aquatic toxicity (Acute) Category 3

HAZARD STATEMENTS

Danger. Harmful if swallowed. Causes severe skin burns and serious eye damage. Corrosive to metals. Harmful to aquatic life.

PREVENTION STATEMENTS

Keep out of reach of children. Read label before use. Keep only in original container. Do not breathe vapours.
Do not eat, drink or smoke when using this product. Wear protective gloves and eye/face protection.
Wash hands thoroughly after handling. Avoid release to the environment.

RESPONSE STATEMENTS

Absorb spillage to prevent material damage. If medical advice is needed, have product container or label at hand.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

STORAGE STATEMENT

Store locked up.

DISPOSAL STATEMENT

Triple rinse empty container before offering for recycling or disposal.

SECTION 3.

Composition and Information on Ingredients

INGREDIENT	PROPORTION	CAS NUMBER
Sodium Hydroxide	<15%	1310-73-2
Tetrasodium EDTA	<15%	64-02-8

SECTION 4.

First Aid Measures

If medical advice is needed, have product container or label at hand.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

SECTION 5.

Fire-Fighting Measures

EXTINGUISHING MEDIA	Foam, CO ₂ , dry chemical, or water fog
COMBUSTION PRODUCTS	Toxic and corrosive fumes
FIRE-FIGHTING PROCEDURES	Use breathing apparatus, firefighting gear, and rubber or PVC gloves

SECTION 6.

Accidental Release Measures

EMERGENCY PROCEDURES	Clean up spills immediately. Wear protective gloves, clothing, and face protection.
ENVIRONMENTAL PRECAUTIONS	Do not allow entry into storm water drains
SPILL CONTROL	Collect leaking liquid in sealable containers. Absorb spilled liquid with inert absorbent. Wash contaminated area with plenty of water.

SECTION 7.

Handling and Storage

HANDLING PRECAUTIONS

Read label before use. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wear protective gloves and eye/face protection. Wash hands thoroughly after handling.

STORAGE

Store locked up. Keep out of reach of children. Keep only in original container.

SECTION 8.

Exposure Controls/Personal Protection

EXPOSURE LIMITS

Workplace Exposure Standard Ceiling = 20 mg/m³

ENGINEERING CONTROLS

Ensure ventilation is adequate

RESPIRATORY PROTECTION

Full-face-piece positive-pressure air-supplied respirator

PROTECTIVE GLOVES

Nitrile rubber or PVC

EYE PROTECTION

Splash-proof goggles or full-face-shield

SECTION 9.

Physical and Chemical Properties

APPEARANCE

Clear, dark red liquid

ODOUR

Slight odour

ODOUR THRESHOLD

Not Determined

pH

13.5-14.0

MELTING POINT/FREEZING POINT

<0°C

INITIAL BOILING POINT

>100°C

FLASH POINT

Not Flammable

FLAMMABILITY

Not Flammable

FLAMMABILITY OR EXPLOSIVE LIMITS

Not Flammable

VAPOUR PRESSURE

Not Determined

VAPOUR DENSITY

Not Determined

RELATIVE DENSITY

1.2

SOLUBILITY

Completely miscible with water

PARTITION CO-EFFICIENT: n-OCTANOL/WATER

Not Applicable

AUTO-IGNITION TEMPERATURE

Not Determined

DECOMPOSITION TEMPERATURE

176°C

KINEMATIC VISCOSITY

7.4x10⁻⁷m²/s

SECTION 10.

Stability and Reactivity

REACTIVITY

Reacts with oxidisers and acids

STORAGE CONDITIONS

Store locked up. Keep out of reach of children.

Keep only in original container.

INCOMPATIBLE SUBSTANCES

Oxidisers and acids

HAZARDOUS DECOMPOSITION PRODUCTS

May evolve toxic gases when heated to decomposition

SECTION 11.

Toxicological Information

ACUTE TOXICITY	Ingestion may cause nausea, vomiting, diarrhea, abdominal pain, and chemical burns to the gastrointestinal tract. Inhalation may cause respiratory irritation and affect breathing.
SKIN CORROSION/IRRITATION	Causes severe skin burns
SERIOUS EYE DAMAGE/IRRITATION	Causes serious eye damage
RESPIRATORY OR SKIN SENSITISATION	No sensitisation
GERM CELL MUTAGENICITY	No data available
CARCINOGENICITY	Not carcinogenic
REPRODUCTIVE TOXICITY	No reproductive toxicity
SPECIFIC TARGET ORGAN TOXICITY	
-SINGLE EXPOSURE	No specific organ toxicity
-REPEATED EXPOSURE	No specific organ toxicity
ASPIRATION HAZARD	No aspiration hazard

TOXICITY

SODIUM HYDROXIDE

CLASSIFICATION: Acutely toxic

REMARK: Toxic according to Schedule 4, Hazardous Substances (Classification) Regulations 2001

STUDY: Rabbit, LD₅₀

VALUE: 1350 mg/kg

SOURCE: Occidental Chemical Corporation, Niagara Falls, New York, 14302-0728

TETRASODIUM EDTA

STUDY: Rat, LD₅₀

VALUE: 1658 mg/kg

SOURCE: BASF AG Ludwigshafen

SPECIES: Rabbit

RESULT: Irritating

SOURCE: BASF AG Ludwigshafen

SECTION 12.

Ecological Information

BIODEGRADABILITY	Rapidly Degradable
BIOACCUMULATIVE POTENTIAL	Not Bioaccumulative
MOBILITY IN SOIL	Not Determined

SODIUM HYDROXIDE ECOTOXICITY

STUDY: Rainbow trout (*Oncorhynchus mykiss*), static, 96 h, LC₅₀

VALUE: 45.4 mg/L

BIOACCUMULATIVE: No

REMARK: Considering its high water solubility, sodium hydroxide is not expected to bio-concentrate in organisms.

SOURCE: EnviroTIPS (1984), Sodium Hydroxide, Environment Canada, Environmental Protection Services, Ottawa, Ontario

RAPIDLY DEGRADABLE: Yes

STUDY: Water flea (*Ceriodaphnia dubia*), 48 h, EC₅₀

VALUE: 40.38 mg/L

SOURCE: Warne, M.S. T. and Schifko, A.D. (1999). Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and Their Contribution to Detergent Toxicity. *Ecotoxicology and Environmental Safety*, 44(2):196-206

SECTION 13.

Disposal Considerations

DISPOSAL Triple rinse empty container before offering for recycling or disposal.

SECTION 14.

Transportation Information

UN NUMBER	3266
SHIPPING NAME	Corrosive liquid, basic, inorganic, N.O.S.
DANGEROUS GOODS CLASS	8
UN PACKING GROUP	PG II
ENVIRONMENTAL HAZARDS	Harmful to aquatic life
SPECIAL PRECAUTIONS	No special precautions required

SECTION 15.

Regulatory Information

HSNO APPROVAL NUMBER	HSR002526
GROUP STANDARD	Cleaning Products (Corrosive) Group Standard 2017
SPECIAL REQUIREMENTS	Not Applicable

SECTION 16.

Other Information

Date Issued: 23-5-2018

ABBREVIATIONS

EC₅₀ (Half maximal effective concentration)

The concentration of a drug, antibody, or toxicant which induces a response halfway between the baseline and maximum after a specified exposure time.

LC₅₀ (Lethal Concentration 50%)

The concentration of a drug, antibody, or toxicant that kills half of a population.

LD₅₀ (Lethal Dose 50%)

The amount of a drug, antibody or toxicant that kills half of a population.

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Simms Jones Limited
217 Lichfield St, Christchurch 8011, New Zealand
PO Box 32054, Christchurch 8147, New Zealand

Phone +64 3 366 5769
Fax +64 3 365 4727
Freephone 0800 808 848

cleanser@simmsjones.co.nz
simmsjones.co.nz

