

MATERIAL SAFETY DATA SHEET

Pacific Toilet Bowl Cleaner

SECTION 1.

Identification of the Substance and Supplier

PRODUCTS APPLICABLE	Pacific Toilet Bowl Cleaner: 5L, 20L, 200L
PRODUCT USE	Household/Industrial/Institutional: Cleaning product
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

Skin corrosion/irritation Category 1C, Serious eye damage/eye irritation Category 1,
Corrosive to metals, Aquatic toxicity (Chronic) Category 2

HAZARD STATEMENTS

Danger. Causes severe skin burns and serious eye damage. May be corrosive to metals. Toxic to aquatic life with long lasting effects.

PREVENTION STATEMENTS

Keep out of reach of children. Read label before use. Wear protective gloves/clothing and eye/face protection.
Wash hands thoroughly after handling. Keep only in original container. Avoid release to the environment.

RESPONSE STATEMENTS

Collect spillage. 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. Immediately call a POISON CENTER or doctor.

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.

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
Phosphoric Acid	<20%	7664-38-2
Alcohols, C12-14, ethoxylated	<5%	68439-50-9
Benzalkonium Chloride	<1%	68424-85-1

SECTION 4.**First Aid Measures**

- IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- 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.
- IF INHALED:** Remove to fresh air and keep at rest in a position comfortable for breathing.

SECTION 5.**Fire-Fighting Measures**

- EXTINGUISHING MEDIA** Foam, CO₂, dry chemical, or water fog
- COMBUSTION PRODUCTS** Toxic organic vapours, amines, oxides of carbon and nitrogen, and hydrogen chloride
- FIRE-FIGHTING PROCEDURES** Normal firefighting procedures may be used

SECTION 6.**Accidental Release Measures**

- EMERGENCY PROCEDURES** Collect spillage. Absorb spillage to prevent material damage.
- ENVIRONMENTAL PRECAUTIONS** Avoid release to the environment
- SPILL CONTROL** Neutralise with soda ash or sodium bicarbonate and mop up

SECTION 7.**Handling and Storage**

- HANDLING PRECAUTIONS** Wear protective gloves/clothing and eye/face protection. Wash hands thoroughly after handling. Use all precautions for handling the product in handling the empty container and residue.
- STORAGE** Store in a cool, dry place. Keep out of reach of children.

SECTION 8.

Exposure Controls/Personal Protection

EXPOSURE LIMITS	No value assigned for this specific material by Worksafe
ENGINEERING CONTROLS	Ensure ventilation is adequate. Keep containers closed.
RESPIRATORY PROTECTION	No respiratory protection required
PROTECTIVE GLOVES	Nitrile rubber
EYE PROTECTION	Splash-proof goggles

SECTION 9.

Physical and Chemical Properties

APPEARANCE	Thick, blue liquid
ODOUR	Lemon
ODOUR THRESHOLD	Not Available
pH	1-2
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	1.065
SOLUBILITY	Completely miscible with water
PARTITION CO-EFFICIENT: n-OCTANOL/WATER	Not Determined
AUTO-IGNITION TEMPERATURE	Not Applicable
DECOMPOSITION TEMPERATURE	>200°C
KINEMATIC VISCOSITY	Not Determined

SECTION 10.

Stability and Reactivity

REACTIVITY	May react with metals to produce flammable hydrogen gas
STORAGE CONDITIONS	No special conditions required
INCOMPATIBLE SUBSTANCES	Alkalis, metals, nitromethane, and sodium borohydride
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic organic vapours, amines, carbon oxides, nitrogen oxides, phosphorus oxides, and hydrogen chloride

SECTION 11.

Toxicological Information

ACUTE TOXICITY	No acute effects
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

PHOSPHORIC ACID

CLASSIFICATION: 8.2C Corrosive to dermal tissue

SPECIES: Rabbit

RESULT: Corrosive

SOURCE: Grande Paroisse SA Paris la Defense 5 Skin irritation tests on various concentrations of phosphoric acid, Randall, D.J., Robinson, E.C., Acute Toxicity Data 1 (1), 68-9, (1990)

CLASSIFICATION 8.3A Corrosive to ocular tissue

SPECIES: Rabbit

RESULT: Severely irritating

SOURCE: Payne MP, Shillaker RO, Wilson AJ. TA:HSE Toxicity Review PG:22 p YR:1993 IP: VI:30

BENZALKONIUM CHLORIDE

ACUTE ORAL TOXICITY

STUDY: Rat, LD50

VALUE: 344 mg/kg

ACUTE DERMAL TOXICITY

STUDY: Rat, LD50

VALUE: 3340 mg/kg

EYE DAMAGE

STUDY: Rabbit, DOT method, 24 h

RESULT: Corrosive

SKIN DAMAGE

Causes skin burns

SENSITISATION

STUDY: Guinea pig, Buehler test, OECD Test Guideline 406

RESULT: Not sensitising

GENOTOXICITY IN VITRO

STUDY: Salmonella typhimurium, Ames test, OECD 471

RESULT: Negative

STUDY: Human lymphocytes, Chromosome aberration test, OECD 473

RESULT: Negative

DODECYL (C12) ALCOHOL ETHOXYLATE

STUDY: Human skin, 6mg, 3 days

RESULT: Moderate irritation

SOURCE: Toxicology Review. EPA TSCA Chemical Inventory, 1989.

SECTION 12.

Ecological Information

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

BIODEGRADABILITY

BENZALKONIUM CHLORIDE

STUDY: OECD Confirmatory Test

VALUE: >90%

STUDY: CO₂ evolution

VALUE: 95.5%

STUDY: OECD 301 B

RESULT: Readily biodegradable

ECOTOXICITY

BENZALKONIUM CHLORIDE

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

VALUE: 0.93 mg/L

STUDY: Fathead minnow (*Pimephales promelas*), 96 h, LC₅₀

VALUE: 0.28 mg/L

STUDY: Water flea (*Daphnia magna*), 48 h, EC₅₀

VALUE: 0.016 mg/L

STUDY: Green algae (*Pseudokirchneriella subcapitata*), 72 h, ErC₅₀

VALUE: 0.049 mg/L

STUDY: Activated sludge, respiration inhibition, 3 h, EC₅₀

VALUE: 7.75 mg/L

ALCOHOLS, C12-C14, ETHOXYLATED

CLASSIFICATION: 9.1A

REMARK: Classification based on company data supporting this classification

R PHRASE: R50 Very toxic to aquatic organisms

SECTION 13.

Disposal Considerations

DISPOSAL	Neutralise with soda ash or sodium bicarbonate. Dilute with excess water and wash down drain. Triple rinse empty container before offering for recycling or disposal.
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SECTION 14.

Transportation Information

UN NUMBER	1760
SHIPPING NAME	Corrosive liquid, N.O.S.
DANGEROUS GOODS CLASS	8
UN PACKING GROUP	PGII
ENVIRONMENTAL HAZARDS	Toxic to aquatic life with long lasting effects
SPECIAL PRECAUTIONS	No special precautions required

SECTION 15.

Regulatory Information

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

SECTION 16.

Other Information

Date Issued: 30-5-2018

ABBREVIATIONS

DOT

United States Department of Transportation

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.

EPA TSCA

United States Environmental Protection Agency Toxic Substances Control Act

ErC₅₀ (Half maximal effective rate concentration)

The concentration of a drug, antibody, or toxicant which results in a 50% reduction in growth rate after a specified exposure time.

LC₅₀ (Lethal Concentration 50%)

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

OECD

Organisation for Economic Co-operation and Development

UN

United Nations

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