EST. SIMMS JONES 1909

MATERIAL SAFETY DATA SHEET

Simms Jones Disinfectant Cleaner

SECTION 1.

Identification of the Substance and Supplier

PRODUCTS APPLICABLE	Simms Jones Disinfectant Cleaner: 5L, 20L, 200L, 1000L
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
6.3A Skin corrosion/irritation Category 2, 6.4A Serious eye damage/eye irritation Category 2A,
9.1A Aquatic toxicity (Acute) Category 1

HAZARD STATEMENTS
Warning. Causes serious eye irritation. Causes skin irritation. Very toxic to aquatic life.

PREVENTION STATEMENTS
Read label before use. Wear protective gloves and eye/face protection.
Wash hands thoroughly after handling. Avoid release to the environment.

RESPONSE STATEMENTS
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: Get medical attention.

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

SECTION 3.

Composition and Information on Ingredients

INGREDIENT	PROPORTION	CAS NUMBER
Alcohols, C12-14, ethoxylated	<5%	68439-50-9
Benzalkonium Chloride	<5%	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. If eye irritation persists: Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: Get medical attention.

SECTION 5.

Fire-Fighting Measures

EXTINGUISHING MEDIA Foam, CO_2, dry chemical, or water fog
COMBUSTION PRODUCTS None known
FIRE-FIGHTING PROCEDURES Normal fire-fighting procedures may be used

SECTION 6.

Accidental Release Measures

EMERGENCY PROCEDURES No special procedures required
ENVIRONMENTAL PRECAUTIONS Avoid release to the environment
SPILL CONTROL Collect leaking liquid in sealable containers, absorb liquid in inert absorbent, and wash contaminated area with plenty of water

SECTION 7.

Handling and Storage

HANDLING PRECAUTIONS Wear protective gloves and eye/face protection. Wash hands thoroughly after handling. Product residue may remain on/in empty containers. 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	None required
PROTECTIVE GLOVES	Nitrile rubber
EYE PROTECTION	Splash-proof goggles

SECTION 9.

Physical and Chemical Properties

APPEARANCE	Clear liquid
ODOUR	Distinctive odour
ODOUR THRESHOLD	Not Available
pH	5.5-8.5
MELTING POINT/FREEZING POINT	<0ºC
INITIAL BOILING POINT	>100ºC
FLASH POINT	Not Flammable
FLAMMABILITY	Not Flammable
FLAMMABILITY OR EXPLOSIVE LIMITS	Not Flammable
VAPOUR PRESSURE	Not Determined
VAPOUR DENSITY	Not Determined
RELATIVE DENSITY	1.0
SOLUBILITY	Completely miscible with water
PARTITION CO-EFFICIENT: n-OCTANOL/WATER	Not Determined
AUTO-IGNITION TEMPERATURE	Not Applicable
DECOMPOSITION TEMPERATURE	Not Determined
KINEMATIC VISCOSITY	$8.9x10^{-7}m^2/s$

SECTION 10.

Stability and Reactivity

REACTIVITY	Not reactive with other chemicals or cleaners
STORAGE CONDITIONS	No special conditions required
INCOMPATIBLE SUBSTANCES	None known
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic organic vapours, amines, oxides of carbon and nitrogen, and hydrogen chloride

SECTION 11.

Toxicological Information

ACUTE TOXICITY	No acute effects
SKIN CORROSION/IRRITATION	Causes skin irritation
SERIOUS EYE DAMAGE/IRRITATION	Causes serious eye irritation
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

BENZALKONIUM CHLORIDE

ACUTE ORAL TOXICITY
STUDY: Rat, LD_{50}
VALUE: 344 mg/kg

ACUTE DERMAL TOXICITY
STUDY: Rat, LD_{50}
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

BIODEGRABILITY	Not Biodegradable
BIOACCUMULATIVE POTENTIAL	Not Bioaccumulative
MOBILITY IN SOIL	Not Determined

BIODEGRADABILITY
BENZALKONIUM CHLORIDE
STUDY: OECD Confirmatory Test
VALUE: >90%
STUDY: CO_2 evolution
VALUE: 95.5%
STUDY: OECD 301 B
RESULT: Readily biodegradable

ECOTOXICTY

BENZALKONIUM CHLORIDE
STUDY: Rainbow trout (Oncorhyncus mykiss), 96 h, LC_{50}
VALUE: 0.93 mg/L
STUDY: Fathead minnow (Pimephales promelas), 96 h, LC_{50}
VALUE: 0.28 mg/L
STUDY: Water flea (Daphnia magna), 48 h, EC_{50}
VALUE: 0.016 mg/L
STUDY: Green algae (Pseudokirchneriella subcapitata), 72 h, ErC_{50}
VALUE: 0.049 mg/L
STUDY: Activated sludge, respiration inhibition, 3 h, EC_{50}
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	Triple rinse empty container before offering for recycling or disposal

SECTION 14.

Transportation Information

UN NUMBER	Not Hazardous for transport
SHIPPING NAME	Disinfectant Cleaner
DANGEROUS GOODS CLASS	Not Hazardous for transport
UN PACKING GROUP	Not Hazardous for transport
ENVIRONMENTAL HAZARDS	Very toxic to aquatic organisms
SPECIAL PRECAUTIONS	No special precautions required

SECTION 15.

Regulatory Information

HSNO APPROVAL NUMBER	HSR002530
GROUP STANDARD	Cleaning Products (Subsidiary Hazard) Group 2017
SPECIAL REQUIREMENTS	Not Applicable

SECTION 16.

Other Information

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ABBREVIATIONS

DOT
United States Department of Transportation

EC_{50} (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

ErC_{50} (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.

LC_{50} (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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