

MATERIAL SAFETY DATA SHEET

Moss, Mould, and Mildew Killer

SECTION 1.

Identification of the Substance and Supplier

PRODUCTS APPLICABLE	Simms Jones Moss, Mould, and Mildew Killer 20L
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

Acute toxicity: Oral Category 4, Serious eye damage/eye irritation Category 1, Skin corrosion/irritation Category 1B, Aquatic toxicity (Acute) Category 1, Ecotoxic to terrestrial vertebrates

HAZARD STATEMENTS

Danger. Harmful if swallowed. Causes severe skin burns and serious eye damage.

Very toxic to aquatic life. Toxic to terrestrial vertebrates.

PREVENTION STATEMENTS

Keep out of reach of children. Read label before use. Wear gloves/protective clothing and eye/face protection.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid release to the environment.

RESPONSE STATEMENTS

Collect spillage. 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. 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
Benzalkonium Chloride	50%	68424-85-1

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. Immediately call a POISON CENTER or doctor.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before re-use.

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. Immediately call a POISON CENTER or doctor.

SECTION 5.

Fire-Fighting Measures

EXTINGUISHING MEDIA	Foam, CO ₂ , dry chemical, or water fog
COMBUSTION PRODUCTS	Toxic fumes
FIRE-FIGHTING PROCEDURES	Firefighters should use self-contained breathing apparatus and protective clothing in case of fire

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/clothing 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.
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STORAGE	Store locked up
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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	Use approved half-face respirator with combination cartridge filters suitable for vapours
PROTECTIVE GLOVES	Nitrile rubber
EYE PROTECTION	Splash-proof goggles or face shield

SECTION 9.

Physical and Chemical Properties

APPEARANCE	Colourless to pale yellow liquid
ODOUR	Slight odour
ODOUR THRESHOLD	Not Available
pH	8.0
MELTING POINT/FREEZING POINT	Not Determined
INITIAL BOILING POINT	100°C
FLASH POINT	Not Flammable
FLAMMABILITY	Not Flammable
FLAMMABILITY OR EXPLOSIVE LIMITS	Not Flammable
VAPOUR PRESSURE	5.9 kPa at 20°C
VAPOUR DENSITY	Not Determined
RELATIVE DENSITY	0.98
SOLUBILITY	Completely miscible with water
PARTITION CO-EFFICIENT: n-OCTANOL/WATER	Not Determined
AUTO-IGNITION TEMPERATURE	Not Applicable
DECOMPOSITION TEMPERATURE	Not Determined
KINEMATIC VISCOSITY	Not Determined

SECTION 10.

Stability and Reactivity

REACTIVITY	No hazardous reactions when stored and handled correctly
STORAGE CONDITIONS	Store locked up
INCOMPATIBLE SUBSTANCES	Mild steel, copper, and strong acids
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic organic vapours, amines, oxides of carbon and nitrogen, and hydrogen chloride

SECTION 11.

Toxicological Information

ACUTE TOXICITY	Toxic if swallowed
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

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

SECTION 12.

Ecological Information

BIODEGRABILITY	Biodegradable
BIOACCUMULATIVE POTENTIAL	Not Bioaccumulative
MOBILITY IN SOIL	Not Determined

BIODEGRADABILITY

STUDY: OECD Confirmatory Test

VALUE: >90%

STUDY: CO₂ evolution

VALUE: 95.5%

STUDY: OECD 301 B

RESULT: Readily biodegradable

ECOTOXICITY

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

SECTION 13.

Disposal Considerations

DISPOSAL	Triple rinse empty container before offering for recycling or disposal
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SECTION 14.

Transportation Information

UN NUMBER	1903
SHIPPING NAME	Disinfectant, liquid, corrosive, N.O.S.
DANGEROUS GOODS CLASS	8
UN PACKING GROUP	PG II
ENVIRONMENTAL HAZARDS	Very toxic to aquatic organisms and toxic to terrestrial vertebrates
SPECIAL PRECAUTIONS	Avoid release to the environment

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: 21-8-2018

ABBREVIATIONS

CAS

Chemical Abstracts Service

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.

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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