

MATERIAL SAFETY DATA SHEET

Citrus Disinfectant Cleaner Concentrate

SECTION 1.

Identification of the Substance and Supplier

| | |
|----------------------------|---|
| PRODUCTS APPLICABLE | Simms Jones Citrus Disinfectant Cleaner Concentrate: 5L |
| 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

Serious eye damage/eye irritation Category 1, Skin corrosion/irritation Category 1B, Aquatic toxicity (Acute) Category 1

HAZARD STATEMENTS

Danger. Causes severe burns and serious eye damage. Very toxic to aquatic life.

PREVENTION STATEMENTS

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

Do not breathe spray. Wash hands thoroughly after handling. Avoid release to the environment.

RESPONSE STATEMENTS

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

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 |
|---------------------------|------------|------------|
| C12-14 Alcohol Ethoxylate | <15% | 68439-50-9 |
| Benzalkonium Chloride | 6.4% | 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** 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/clothing and eye/face protection. Do not breathe mist or spray. 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 locked up. 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 | Organic vapour respirator when mist or spray may be generated |
| PROTECTIVE GLOVES | Nitrile rubber |
| EYE PROTECTION | Splash-proof goggles |

SECTION 9.

Physical and Chemical Properties

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|---|--|
| APPEARANCE | Clear yellow liquid |
| ODOUR | Citrus odour |
| ODOUR THRESHOLD | Not Available |
| pH | 5-6 |
| 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 | 1.0 |
| 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 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

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

| | |
|----------------------------------|---------------------|
| BIODEGRABILITY | 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 | 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, NOS |
| DANGEROUS GOODS CLASS | 8 |
| UN PACKING GROUP | III |
| ENVIRONMENTAL HAZARDS | Very toxic to aquatic organisms |
| SPECIAL PRECAUTIONS | No special precautions required |

SECTION 15.

Regulatory Information

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

SECTION 16.

Other Information

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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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