

MATERIAL SAFETY DATA SHEET

Citrus Degreaser Concentrate

SECTION 1.

Identification of the Substance and Supplier

PRODUCTS APPLICABLE	Simms Jones Citrus Degreaser Concentrate: 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

Serious eye damage/eye irritation Category 2B, Skin corrosion/irritation Category 3, Skin sensitization, Aquatic toxicity (Chronic) Category 2

HAZARD STATEMENTS

Warning. Causes eye irritation. Causes mild skin irritation.
May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

PREVENTION STATEMENTS

Read label before use. Obtain special instructions before use. Wear eye/face protection. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

RESPONSE STATEMENTS

Wash contaminated clothing before reuse. Collect spillage.

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. If skin irritation or rash occurs: Get medical attention.

DISPOSAL STATEMENT

Wash empty container with detergent and triple rinse empty container before offering for recycling or disposal.

SECTION 3.**Composition and Information on Ingredients**

INGREDIENT	PROPORTION	CAS NUMBER
D-Limonene	<10%	5989-27-5
Ethoxylated Octyl Phenol	<10%	9036-19-5
Coconut Diethanolamide	<10%	68603-42-9

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. If skin irritation occurs: Get medical attention.

SECTION 5.**Fire-Fighting Measures**

EXTINGUISHING MEDIA	Foam, CO ₂ , dry chemical, or water fog
COMBUSTION PRODUCTS	Oxides of carbon and organic compounds, toxic organic vapours, amines, and hydrogen chloride
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	No special precautions required. Product residue may remain on/in empty containers. Use all precautions for handling the product in handling the empty container and residue.
STORAGE	Keep out of reach of children.

SECTION 8.

Exposure Controls/Personal Protection

EXPOSURE LIMITS	8 h TWA = 583ppm
ENGINEERING CONTROLS	Ensure ventilation is adequate. Keep containers closed.
RESPIRATORY PROTECTION	Organic vapour respirator
PROTECTIVE GLOVES	Nitrile rubber
EYE PROTECTION	Splash-proof goggles

SECTION 9.

Physical and Chemical Properties

APPEARANCE	Slightly opaque orange liquid
ODOUR	Citrus odour
ODOUR THRESHOLD	Not Available
pH	9
MELTING POINT/FREEZING POINT	<0°C
BOILING RANGE	100°C-275°C
FLASH POINT	Not Flammable
FLAMMABILITY	Not Flammable
FLAMMABILITY OR EXPLOSIVE LIMITS	Not Applicable
VAPOUR PRESSURE	Not Determined
VAPOUR DENSITY	Not Determined
RELATIVE DENSITY	1.01
SOLUBILITY	Completely miscible with water
PARTITION CO-EFFICIENT: n-OCTANOL/WATER	Not Determined
AUTO-IGNITION TEMPERATURE	Not Determined
DECOMPOSITION TEMPERATURE	450°C
KINEMATIC VISCOSITY	8.8x10 ⁻⁷ m ² /s

SECTION 10.

Stability and Reactivity

REACTIVITY	Reacts with oxygen to form hydroperoxides
STORAGE CONDITIONS	Store in a well-ventilated place. Keep cool. Store locked up.
INCOMPATIBLE SUBSTANCES	Oxygen, strong oxidising agents, iodine pentafluoride, tetrafluoroethylene, sulphur, tert-butyl peroxybenzoate, Lewis acids, Ziegler-Natta catalysts, acidic clays, and mineral acids
HAZARDOUS DECOMPOSITION PRODUCTS	Hydrocarbons and oxides of carbon

SECTION 11.

Toxicological Information

ACUTE TOXICITY	May cause nausea
SKIN CORROSION/IRRITATION	Causes mild skin irritation
SERIOUS EYE DAMAGE/IRRITATION	Causes eye irritation
RESPIRATORY OR SKIN SENSITISATION	Skin 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

D-LIMONENE

SKIN IRRITATION

RESULT: Irritant

SOURCE: OPP RED

EYE IRRITATION

SPECIES: Rabbit

RESULT: Irritant

SOURCE: Health effects of selected chemicals 2. d-Limonene and d/l-limonene. Nord PG:105-35, 1993.

SKIN SENSITISATION

CLASSIFICATION DESCRIPTION: Contact sensitiser

REMARKS: The sensitising capacity of limonene was demonstrated in different experimental studies on guinea pigs. It was found that the potential to sensitise increased as the formation of oxidation products was favoured. Contact allergy to limonene was demonstrated in humans. From the available data the critical effects are the irritative and sensitising properties of limonene.

SOURCE: Health effects of selected chemicals 2. d-Limonene and d/l-limonene. Nord PG:105-35, 1993.

COCONUT DIETHANOLAMIDE

STUDY: Rabbit, OECD Guideline 405 "Acute Eye Irritation/Corrosion"

RESULT: Highly irritating

REMARK: After 21 days a persisting opacity in the cornea was observed in some animals. Because the substance was previously found to be irritating on the skin, only 0.01ml of the undiluted substance was applied to the rabbit's eye, i.e. 10% of the OECD standard.

SOURCE: Henkel KGaA Duesseldorf.

(38). Classification and Labelling of Surfactants, dated from 12 October 1990,

European Committee of Organic Solvents and their Intermediates, Brussels (1990).

(39). Kaestner W., Henkel KGaA, unpublished data, Archive No. 870293 (1987).

SECTION 12.

Ecological Information

BIODEGRADABILITY	Rapidly Degradable
BIOACCUMULATIVE POTENTIAL	Bioaccumulative
MOBILITY IN SOIL	Not Determined

D-LIMONENE

AQUATIC STUDIES

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

VALUE: 0.421 mg/L

SOURCE: ICPS, 19989, Concise International Chemical Assessment Document No. 5: Limonene. WHO, Geneva.

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

VALUE: 0.702 mg/L

SOURCE: Reference number 3217. Geiger D.L., Brooke L.T., and Call D.J. (1990), Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*), Volume 5. Center for Lake Superior Environmental Studies, University of Wisconsin, Superior, WI: 332.

BIOACCUMULATIVE: Yes

WATER SOLUBILITY: 13.8 mg/L at 25°C

SOURCE: Riddick, J.A. et al, Organic Solvents 4th edition, New York: Wiley Interscience (1986).

log P_{ow} = 4.232

SOURCE: Graphic Exposure Modeling System cLogP, United States Environmental Protection Agency.

BIOCENTRATION FACTORS: Octanol: 246
 Water: 262

SOURCE: Lyman W.J. et al, Handbook of Chemical Property Estimation Methods, New York: McGraw-Hill (1982), pages 5-1 to 5-30.

BIODEGRADABILITY STUDIES

DEGRADATION: 100% after 28 days

RESULT: Biodegradable for certain microorganisms

SOURCE: Adrian SA, Marseille

DEGRADATION: 100%

RESULT: Inherently biodegradable

SOURCE: Weissmeer Baltische Import-Export GmbH

ETHOXYLATED OCTYL PHENOL

STUDY: Green Algae (*Selenastrum*), 96 h, EC₅₀

VALUE: 0.21 mg/L

SOURCE: Lewis M.A., Comparison of the Effects of Surfactants on Freshwater Phytoplankton Communities in Experimental Enclosures and on Algal Growth in the Lab. Environmental Toxicology and Chemistry (1986), 5(3):319-332.

SECTION 13.

Disposal Considerations

DISPOSAL	Wash empty container with detergent and triple rinse before offering for recycling or disposal.
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SECTION 14.

Transportation Information

UN NUMBER	Not Hazardous for transport
SHIPPING NAME	Citrus Degreaser Concentrate
DANGEROUS GOODS CLASS	Not Hazardous for transport
UN PACKING GROUP	Not Hazardous for transport
ENVIRONMENTAL HAZARDS	Toxic to aquatic life with long lasting effects
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

Date Issued: 9-5-2018

ABBREVIATIONS

8 h TWA (Time-Weighted Average)

The time-weighted average airborne concentration of a substance when calculated over an eight-hour working day for a five-day working week.

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.

OECD

Organisation for Economic Co-operation and Development

UN

United Nations

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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