

MATERIAL SAFETY DATA SHEET

Isopropyl Alcohol

SECTION 1.

Identification of the Substance and Supplier

PRODUCTS APPLICABLE	Isopropyl Alcohol 5L
PRODUCT USE	Organic solvent and cleaning fluid for electronic devices
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

Flammable liquids Category 2, Acute toxicity: Oral Category 5,
Serious eye damage/eye irritation Category 2A, Skin corrosion/irritation Category 3

HAZARD STATEMENTS

Danger. Highly flammable liquid and vapour. Causes serious eye irritation.
Causes mild skin irritation. May be harmful if swallowed and enters airways.

PREVENTION STATEMENTS

Keep out of reach of children. Keep container tightly closed. Keep away from heat, sparks, open flames, and hot surfaces.
No smoking. Read label before use. Take precautionary measures against static discharge. Use explosion-proof electrical equipment.
Use only non-sparking tools. Wear protective gloves and eye/face protection. Wash hands thoroughly after handling.

RESPONSE STATEMENTS

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. If eye irritation persists: Get medical attention.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
If skin irritation occurs: Get medical attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

STORAGE STATEMENTS

Store locked up. Store in a well-ventilated place. Keep cool.

DISPOSAL STATEMENT

Triple rinse empty container before offering for recycling or disposal.

SECTION 3.

Composition and Information on Ingredients

INGREDIENT	PROPORTION	CAS NUMBER
Isopropyl Alcohol	100%	67-63-0

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 (or hair):** Remove immediately all contaminated clothing. Rinse skin with water. If skin irritation persists: Get medical attention.
- IF SWALLOWED:** Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

SECTION 5.

Fire-Fighting Measures

- EXTINGUISHING MEDIA** Foam, carbon dioxide, dry powder, or water spray
- COMBUSTION PRODUCTS** Carbon dioxide and water
- FIRE-FIGHTING PROCEDURES** Use a flame-retardant coat, helmet with face shield, gloves, rubber boots, and a self-contained breathing apparatus.

SECTION 6.

Accidental Release Measures

- EMERGENCY PROCEDURES** Remove all ignition sources
- ENVIRONMENTAL PRECAUTIONS** No special precautions required
- SPILL CONTROL** Ventilate area. Remove ignition sources. Wear protective equipment. Apply sand or inert absorbent material. Sweep up and dispose.

SECTION 7.

Handling and Storage

- HANDLING PRECAUTIONS**
Keep out of reach of children. Keep container tightly closed. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Read label before use. Take precautionary measures against static discharge. Use explosion-proof electrical equipment. Use only non-sparking tools. Wear protective gloves and eye/face protection. Wash hands thoroughly after handling.

- STORAGE**
Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8.

Exposure Controls/Personal Protection

EXPOSURE LIMITS	8 h TWA = 490 mg/m ³ 15 min STEL = 980 mg/m ³
ENGINEERING CONTROLS	Ensure ventilation is adequate
RESPIRATORY PROTECTION	Full-face-piece positive-pressure air-supplied respirator
PROTECTIVE GLOVES	Nitrile rubber or PVC
EYE PROTECTION	Splash-proof goggles or full-face-shield

SECTION 9.

Physical and Chemical Properties

APPEARANCE	Clear colourless liquid
ODOUR	Mild alcohol
ODOUR THRESHOLD	Not Available
pH	Not Applicable
MELTING POINT/FREEZING POINT	-88.5°C
INITIAL BOILING POINT	82°C
FLASH POINT	12°C (closed cup)
FLAMMABILITY	Flammable
LOWER FLAMMABILITY LIMIT	2% by volume
UPPER FLAMMABILITY LIMIT	12.7% by volume
VAPOUR PRESSURE	6.0 kPa at 25°C
VAPOUR DENSITY	2.1
RELATIVE DENSITY	0.79 at 20°C
SOLUBILITY	Completely miscible with water
PARTITION CO-EFFICIENT: n-OCTANOL/WATER	log P _{ow} = 0.05
AUTO-IGNITION TEMPERATURE	399°C
DECOMPOSITION TEMPERATURE	Not Determined
KINEMATIC VISCOSITY	1.1x10 ⁻⁶ m ² /s

SECTION 10.

Stability and Reactivity

REACTIVITY	Reacts with strong oxidisers and peroxides
STORAGE CONDITIONS	Store locked up. Store in a well-ventilated place. Keep cool.
INCOMPATIBLE SUBSTANCES	Strong oxidisers, peroxides, acids, acetylene, chlorinr, ethylene oxide, sulphuric acid, isocyanates, and aluminium
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of carbon

SECTION 11.

Toxicological Information

ACUTE TOXICITY	May cause nausea, stomach pain, and vomiting
SKIN CORROSION/IRRITATION	Causes mild 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	Respiratory tract irritation
-REPEATED EXPOSURE	No specific organ toxicity
ASPIRATION HAZARD	May be harmful if swallowed and enters airways

TOXICITY

ORAL

STUDY: Mouse, LD₅₀

VALUE: 3600 mg/kg

SOURCE: HYSAAV. (V/O Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.1- 1936- (43(1), 8, 1978). [RTECS]

SKIN IRRITATION

SPECIES: Rabbit

RESULT: Mild

REFERENCE SOURCE: National Technical Information Service. (Springfield, VA 22161). (AD-A106-944). [RTECS]

EYE IRRITATION

SPECIES: Rabbit

RESULT: Mild. Graded 4 on scale of 1-10 (10 being the most severe) after 24 hrs.

REFERENCE SOURCE: Grant, W.M. Toxicology of the Eye. 3rd ed. Springfield, IL: Charles C. Thomas Publisher, 1986. 539]

SECTION 12.

Ecological Information

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

ECOTOXICITY

STUDY: Western mosquitofish (*Gambusia affinis*), 96 h, LC₅₀

VALUE: >1400 mg/L

STUDY: Water flea (*Daphnia magna*), 24 h, LC₅₀

VALUE: 10,000 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	1219
SHIPPING NAME	Isopropyl Alcohol
DANGEROUS GOODS CLASS	Flammable liquids Category 2
UN PACKING GROUP	PG II
ENVIRONMENTAL HAZARDS	Not Environmentally Hazardous
SPECIAL PRECAUTIONS	No special precautions required

SECTION 15.

Regulatory Information

HSNO APPROVAL NUMBER	HSR001180
SPECIAL REQUIREMENTS	Not Applicable

SECTION 16.

Other Information

Date Issued: 2-8-2018

ABBREVIATIONS

15 min STEL (Short-Term Exposure Limit)

The airborne concentration of a substance calculated as a time-weighted average over 15 minutes which must not be exceeded at any time during a normal eight-hour workday. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

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.

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.

RTECS

Registry of Toxic Effects of Chemical Substances

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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