

MATERIAL SAFETY DATA SHEET

PRODUCT: RF ISOPROPYL ALCOHOL

PRODUCT IDENTIFICATION

Trade Name: Isopropanol
Other Name: Propan-2-01

UN No: 1219
Dangerous Goods Class: 3
Subsidiary Risk: None Allocated
Hazchem Code: 2[Y]E
Poisons Schedule: N/A
Packaging Group: II
EPG: 16

Manufacturers Code: Various

Hazard Identification

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classified as hazardous according to the criteria of NOHSC, and as Dangerous Goods according to the Australian Dangerous Goods Code.

Symbol(s): F Highly flammable.
Xi Irritant.

R-phrases(s): R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

S-phrases(s): S7 Keep container tightly closed.
S16 Keep away from sources of ignition - No smoking.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 2 Keep out of the reach of children.

Health Hazards: Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. Irritating to eyes.

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Signs and Symptoms: Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Other signs and symptoms of central nervous system (CNS) depression may include headache, nausea, and lack of coordination.

Aggravated Medical Condition Pre-existing medical conditions of the following organ(s) or organ system(s) **may be aggravated by exposure to this material: Eyes. Skin.**

SUSDP Schedule: Not scheduled.

Use

A clear colourless liquid used for cleaning electronic circuit boards, computer equipment and other electronic equipment.

Physical Description/Properties

Colourless clear and volatile liquid

Boiling Point: 82.22 deg C

Melting Point: -88.5 deg C

Flash Point: 12 Deg C

Auto Ignition Temp: > 350 Deg C

Flammable Limits in Air: vol%: Lower 2 Upper 12

Vapour Pressure: 4,100 Pa at 20 deg C

Specific Gravity: 0.79 at 20 deg C

pH: 7 ()

Water solubility: Completely miscible

Flammability Limits in air: 2-12 % (V)

Vapour density (air=1): 2 at 20 Deg C

Ingredients	CAS NO.	PROPORTION %
Isopropyl Alcohol	[67-63-0]	High 100%

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HEALTH HAZARD INFORMATION

Health Effects – Acute

- Swallowed: Hazardous in case of ingestion.
Eye: Irritating and will injure eye tissue if not removed promptly.
Skin: Low order or toxicity. Frequent or prolonged contact may defat and dry skin, leading to discomfort and dermatitis.
Inhaled: Negligible hazard at ambient temperature (-18 to 38 Deg C). Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

Health Effects – Chronic

Repeated or prolonged exposure is not known to aggravate medical conditions.

First Aid

- Swallowed: Do not induce vomiting. Keep at rest. If the victim is not breathing, perform artificial respiration. Seek immediate medical attention.
Eye: Irrigate eyes with running water for at least 15 minutes, keep eyelids open. Do not use any eye ointment. Seek medical attention.
Skin: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhaled: Move victim to fresh air, loosen tight clothing. If breathing stops give artificial respiration, get prompt medical attention.
Advice to Doctor: Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards

Isopropyl Alcohol: Exposure standards established by the Worksafe Australia. TWA: 400ppm 983 mg/m³
STEL: 500ppm 1.230 mg/m³.

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

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Personal Protection

Personal Protection: Respiratory protection: Vapor respirator. Be sure to use approved respirator or equivalent. Wear appropriate respirator when ventilation inadequate. Eyes protection: Wear splash goggles. Body protection: Wear chemical resistant protective suit. Hands protection: Wear butyl rubber gloves. Feet protection: Wear chemical resistant safety boots.

Flammability

Flammable liquid, this product is stable.

SAFE HANDLING INFORMATION

Storage and Transport:

Store in a cool dry area, not more than 50 Deg C. Keep locked up. Keep away from heat, Keep away from sources of ignition. Do not ingest. Do not breathe gas, fumes, vapors or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact skin and eyes. Keep away from incompatibles such as oxidizing agents, acids. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (sparks or flame).

Classified for transport as UN 1219 Class 3, Packaging Group II, Hazchem code 2Y, EPG 16.
Shipping Name: Isopropanol (Isopropyl Alcohol). Hazard Flammable Irritant.

Spills and Disposal

Spills

Clean up personnel should wear splash goggles, full suit, vapor respirator, boots, gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product. Keep away from heat. Keep away from sources of ignition, Ground all equipment containing material. Do not touch spilled material. Prevent entry into sewers or confined areas. Eliminate all sources of ignition. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

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Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Fire and Explosion Hazard

Fire/Explosion

Flammable Liquid. Incompatible with various substances such as oxidizing agents, acids. Slightly reactive to reactive with moisture. When heated decomposition, it emits acrid smoke and fumes.

Extinguishing Media

Fire fighters should wear full protective equipment including self-contained breathing apparatus. Highly flammable in presence of open flames and sparks, of heat of oxidizing materials. Flammable in presence of combustible material. Use dry chemical powder for small fire and use alcohol foam, water spray or fog. Vapor may travel considerable distance to source of ignition flash back. When heated to decomposition it emits acrid smoke and fumes.

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