



# SAFETY DATA SHEET

## ISOPROPYL ALCOHOL

---

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

---

**PRODUCT NAME:** ISOPROPYL ALCOHOL  
**PART No.:** RM134, RM135  
**SYNONYMS, TRADE NAMES:** sec-PROPYL ALCOHOL, ISOPROPANOL, PROPAN-2-OL, IPA  
**SUPPLIER:** J M Loveridge plc  
Southbrook Road, Southampton  
Hampshire  
SO15 1BH  
Tel: 023 8022 2008  
Fax: 023 8022 2117

---

### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

---

**EU INDEX No.:** 603-117-00-0  
**EEC (EINECS) No.** 200-661-7  
**CAS No.:** 67-63-0

---

### 3. HAZARDS IDENTIFICATION:

---

Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

---

### 4. FIRST AID MEASURES:

---

**GENERAL:** IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

**INHALATION:** Move affected person to fresh air. If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration. Keep affected person warm and at rest.

**INGESTION:** DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Keep patient at rest and obtain medical attention.

**SKIN:** Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention.

**EYES:** Rinse immediately with copious amounts of water. If irritation or discomfort persists, seek medical attention.

---

## 5. FIRE FIGHTING MEASURES:

---

<b>EXTINGUISHING MEDIA:</b>	Alcohol resistant foam. Dry chemicals, sand, dolomite etc. Halon. Carbon dioxide (CO <sub>2</sub> ).
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Use gentle application of water spray to keep exposed containers cool or to dissipate vapour.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	May explode when heated or when exposed to flames or sparks. Vapour may travel considerable distance to source of ignition and flash back.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Burning will produce oxides of carbon.
<b>PROTECTIVE MEASURES IN FIRE:</b>	Fire fighters should wear self-contained breathing apparatus.

---

## 6. ACCIDENTAL RELEASE MEASURES:

---

<b>PERSONAL PRECAUTION IN SPILL:</b>	Wear appropriate protective clothing. Eliminate all sources of ignition. Do not breathe vapour or fumes. Ventilate area to dispel residual vapour or fumes.
<b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b>	Prevent contamination of soil, drains and surface water.
<b>SPILL CLEANUP METHODS:</b>	Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Wash the area clean with water and detergent, observing environmental requirements. Absorb small quantities with paper towels or other inert material and allow to evaporate in safe place (fume hood/cupboard).

---

## 7. HANDLING AND STORAGE:

---

<b>USAGE PRECAUTIONS:</b>	<b>HANDLING</b> - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Spillages will create a fire hazard. Avoid vapour formation and ignition sources. Avoid inhalation of vapours. Ensure good ventilation and local exhaust extraction in work place. (engineering controls must be to explosion/flameproof standard). Earth container and transfer equipment to eliminate accumulation of static charge.
<b>STORAGE PRECAUTIONS:</b>	Store in a cool, dry, well ventilated place, in securely closed original container. Flammable/combustible - Keep away from oxidising agents, heat and flames.
<b>STORAGE CRITERIA:</b>	Flammable liquid storage.

---

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

---

<b>INGREDIENT NAME:</b>	<b>CAS No.:</b>	<b>STD</b>	<b>LT EXP 8 Hrs</b>	<b>ST EXP 15 Min</b>
ISOPROPYL ALCOHOL	67-63-0	OES	400 ppm	500 ppm

<b>VENTILATION:</b>	Provide adequate general and local exhaust ventilation. Work in fume cupboard.
<b>RESPIRATORS:</b>	For short periods of work, a suitable RPE fitted with a combination charcoal or organic vapour cartridge is recommended.
<b>PROTECTIVE GLOVES:</b>	Use impervious gloves made of butyl rubber or PVC.
<b>EYE PROTECTION:</b>	Approved chemical safety goggles or face protection.

---

<b>OTHER PROTECTION:</b>	Use engineering controls to reduce air contamination to permissible exposure level. Wear personal protective equipment appropriate to the quantity of material handled.
<b>HYGIENIC WORK PRACTICES:</b>	SKIN PROTECTION - apply barrier cream to hands and exposed skin.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

---

<b>APPEARANCE:</b>	Clear colourless liquid.		
<b>ODOUR/TASTE:</b>	Characteristic, alcoholic odour.		
<b>BOILING POINT (°C, interval):</b>	~ 82	<b>Pressure:</b>	
<b>MELT/FREEZ. POINT (°C, interval):</b>	~ -88		
<b>DENSITY/SPECIFIC GRAVITY (g/ml):</b>	~ 0.79	<b>Temperature (°C):</b>	20
<b>VAPOUR DENSITY (air=1):</b>	2.07		
<b>VAPOUR PRESSURE:</b>	4100 Pa	<b>Temperature (°C):</b>	20
<b>EVAPORATION RATE:</b>	1.5	<b>Reference:</b>	BuAc=1
<b>VOLATILE BY VOL. (%):</b>	100		
<b>SOLUBILITY DESCRIPTION:</b>	Miscible with water. Soluble in: Organic solvents (most).		
<b>FLASH POINT (°C):</b>	~ 12	<b>Method:</b>	CC (Closed cup).
<b>AUTO IGNITION TEMP. (°C):</b>	~ 425		
<b>FLAMMABILITY LIMIT - LOWER (%):</b>	2		
<b>FLAMMABILITY LIMIT - UPPER (%):</b>	12		

---

## 10. STABILITY AND REACTIVITY:

---

<b>STABILITY:</b>	Stable under normal conditions of use.
<b>CONDITIONS TO AVOID:</b>	Avoid heat, flames and other sources of ignition. Avoid accumulation of static electricity.
<b>MATERIALS TO AVOID:</b>	Oxidising agents. Sulphuric acid, Nitric acid. Can react exothermically with aluminium.
<b>HAZARDOUS DECOMP. PRODUCTS:</b>	Thermal decomposition or burning will release oxides of carbon.

---

## 11. TOXICOLOGICAL INFORMATION:

---

<b>TOXIC DOSE - LD 50:</b>	5000 mg/kg (oral rat)
<b>HEALTH HAZARDS, GENERAL:</b>	Intoxicating if inhaled or ingested.
<b>INHALATION:</b>	May cause transient irritation to the respiratory system. Exposure to high vapour concentration may cause central nervous system depression or systemic effects similar to those of ingestion.
<b>INGESTION:</b>	May cause nausea, vomiting, dizziness and depression of CNS.
<b>SKIN:</b>	Repeated or prolonged contact may cause dermatitis.
<b>EYES:</b>	May cause transient eye irritation or damage.

---

**HEALTH WARNINGS:** On (prolonged) contact may cause mild drying (and/or cracking) of skin and eye irritation.

**ROUTE OF ENTRY:** Inhalation.

---

## 12. ECOLOGICAL INFORMATION:

---

**Ecotoxicological data** LC50 fish > 100 mg/l

**ECOLOGICAL INFORMATION:** Regarded as having low toxicity to aquatic organisms.

**MOBILITY:** Water soluble, will partition to aqueous phase. Lost within short period through evaporation and dissolution. Poorly absorbed onto soils or sediments.

**BIO ACCUMULATION:** Low bioaccumulation potential.

**DEGRADABILITY:** Readily biodegradable. Poses a risk of oxygen depletion in aquatic systems.

---

## 13. DISPOSAL CONSIDERATIONS:

---

**DISPOSAL METHODS:** This material and/or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations.

**WASTE CLASS:** WASTE CODE: 0705\*\* HAZARDOUS PROPERTY: H3-A, (H4)

---

## 14. TRANSPORT INFORMATION:

---

**UN No. ROAD:** 1219

**UK ROAD PACK GR.:** II

**ADR CLASS No.:** 3

**ADR CLASS:** Class 3: Flammable liquids.

**ADR ITEM No.:** 3°(b)

**HAZARD No. (ADR):** 33 Highly flammable liquid (flash-point below 23°C).

**ADR MARGINAL:** 2301

**ADR LABEL No.:** 3

**HAZCHEM CODE:** 2YE

**PROPER SHIPPING NAME I:** ISOPROPANOL (ISOPROPYL ALCOHOL)

**ROAD TRANSPORT NOTES:** Flash point: 12°C

**UN No. SEA:** UN 1219

**IMDG CLASS:** 3.2

**IMDG PAGE No.:** 3244

---

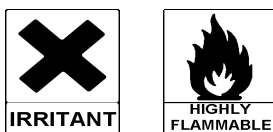
IMDG PACK GR.: II  
MARINE POLLUTANT: No.  
UN No., AIR: UN-ID 1219  
ICAO CLASS: 3  
AIR PACK GR.: II

---

## 15. REGULATORY INFORMATION:

---

### LABEL FOR SUPPLY:



**RISK PHRASES:** R-11 Highly flammable.  
R-36 Irritating to eyes.  
R-67 Vapours may cause drowsiness and dizziness.

**SAFETY PHRASES:** S-2 Keep out of reach of children.  
S-7 Keep container tightly closed.  
S-16 Keep away from sources of ignition - No Smoking.  
S-24/25 Avoid contact with skin and eyes.  
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**UK REGULATORY REFERENCES:** Classification, Packaging and Labelling Regulations 1984. Chemicals (Hazard Information & Packaging) Regulations 1993.

---

## 16. OTHER INFORMATION:

---

**INFORMATION SOURCES:** This product has been classified in accordance with CHIP3 regulations.

**REVISION COMMENTS:** Edition 01; Revised item(s):

**ISSUED BY:** MK

**SDS No.:** 253

**DATE:** 12/07/02

**DISCLAIMER:** The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.

---