



# SAFETY DATA SHEET

## ACETONE

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

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**PRODUCT NAME:** ACETONE  
**CHEMICAL NAME 2:** PROPAN-2-ONE  
**PART No.:** RM003, RM004  
**SUPPLIER:** J M Loveridge plc  
Southbrook Road, Southampton  
Hampshire  
SO15 1BH  
Tel: 023 8022 2008  
Fax: 023 8022 2117

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

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**EU INDEX No.:** 606-001-00-8  
**EEC (EINECS) No.** 200-662-2  
**CAS No.:** 67-64-1

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### 3. HAZARDS IDENTIFICATION:

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Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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### 4. FIRST AID MEASURES:

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

**SKIN:** Remove contaminated clothing. Wash affected area with plenty of soap and water. Obtain medical attention.

**EYES:** Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

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## 5. FIRE FIGHTING MEASURES:

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<b>EXTINGUISHING MEDIA:</b>	Water spray, fog or mist. Dry chemicals, sand, dolomite etc. Halon. Powder, foam or CO <sub>2</sub> .
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Move container from fire area if it can be done without risk. Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Forms explosive mixtures with air. Extremely flammable. May explode in a fire. Vapour may travel considerable distance to source of ignition and flash back.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Burning may release oxides of carbon and other hazardous gases or vapours.
<b>PROTECTIVE MEASURES IN FIRE:</b>	Fire fighters should wear self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES:

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<b>PERSONAL PRECAUTION IN SPILL:</b>	Avoid direct contact with skin, eyes and clothing. Do not breathe vapour or fumes.
<b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b>	Prevent contamination of soil, drains and surface water.
<b>SPILL CLEANUP METHODS:</b>	Accidental release measures - avoid ignition sources. 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).

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## 7. HANDLING AND STORAGE:

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<b>USAGE PRECAUTIONS:</b>	<b>HANDLING</b> - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Avoid vapour inhalation, skin and eye contact. Do not use contact lenses. Avoid vapour formation and ignition sources. 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>	Avoid direct sunlight. Store in a cool, dry, well ventilated place, in securely closed original container.
<b>STORAGE CRITERIA:</b>	Flammable liquid storage.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

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<b>INGREDIENT NAME:</b>	<b>CAS No.:</b>	<b>STD</b>	<b>LT EXP 8 Hrs</b>	<b>ST EXP 15 Min</b>
ACETONE	67-64-1	OES	750 ppm	1500 ppm

<b>INGREDIENT COMMENTS:</b>	Refer to the current edition of HSE Guidance Note EH 40/200* for occupational exposure limits;
<b>VENTILATION:</b>	Work in fume cupboard. Respiratory protection required in insufficiently ventilated working areas.

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<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 PTFE (teflon).
<b>EYE PROTECTION:</b>	Contact lenses should not be worn when working with this chemical! Where the potential for eye contact exists, splash-proof goggles or face shield must be worn.
<b>OTHER PROTECTION:</b>	Wear protective clothing and closed footwear. Wear personal protective equipment appropriate to the quantity of material handled.
<b>HYGIENIC WORK PRACTICES:</b>	<b>DO NOT SMOKE IN WORK AREA!</b> SKIN PROTECTION - use appropriate barrier cream to prevent defatting and cracking of skin.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

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<b>APPEARANCE:</b>	Liquid. Clear.		
<b>COLOUR:</b>	Colourless.		
<b>ODOUR/TASTE:</b>	Characteristic. Acetone, ketone.		
<b>DENSITY/SPECIFIC GRAVITY (g/ml):</b>	~0.79	<b>Temperature (°C):</b>	20
<b>VAPOUR DENSITY (air=1):</b>	2		
<b>VAPOUR PRESSURE:</b>	24.7 kPa	<b>Temperature (°C):</b>	20
<b>EVAPORATION RATE:</b>	5.6	<b>Reference:</b>	BuAc=1
<b>VOLATILE BY VOL. (%):</b>	100		
<b>SOLUBILITY DESCRIPTION:</b>	Miscible with water. Miscible with: Alcohol. Ether.		
<b>SOLUBILITY VALUE (g/100g H<sub>2</sub>O 20°C):</b>	100		
<b>ODOUR THRESHOLD, LOWER:</b>	13 ppm		
<b>ODOUR THRESHOLD, UPPER:</b>	ppm		
<b>FLASH POINT (°C):</b>	-18	<b>Method:</b>	CC (Closed cup).
<b>AUTO IGNITION TEMP. (°C):</b>	540		
<b>FLAMMABILITY LIMIT - LOWER (%):</b>	2.1		
<b>FLAMMABILITY LIMIT - UPPER (%):</b>	13.0		

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## 10. STABILITY AND REACTIVITY:

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<b>STABILITY:</b>	Stable under normal conditions of use.
<b>CONDITIONS TO AVOID:</b>	Avoid contact with: Strong oxidising agents. Avoid contact with acids. Avoid heat, flames and other sources of ignition.
<b>MATERIALS TO AVOID:</b>	Potassium sulphate, sodium hydroxide, sulphuric acid, nitric acid, hydrogen peroxide, chloroform, activated carbon, bromine.
<b>HAZARDOUS DECOMP. PRODUCTS:</b>	Thermal decomposition or burning may release oxides of carbon and other hazardous gases or vapours.

## 11. TOXICOLOGICAL INFORMATION:

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<b>TOXIC DOSE - LD 50:</b>	5800 mg/kg (oral rat)
<b>TOXICOLOGICAL INFORMATION:</b>	Low order of acute toxicity.
<b>HEALTH HAZARDS, GENERAL:</b>	Vapour will irritate the membranes of nose, throat, lungs and eyes.
<b>INGESTION:</b>	Ingestion will cause gastric irritation and vomiting. Aspiration during swallowing or vomiting may severely damage the lungs.
<b>ROUTE OF ENTRY:</b>	Inhalation. Ingestion. Skin and/or eye contact.
<b>TARGET ORGANS:</b>	Central nervous system. Eyes. Respiratory system, lungs. Skin.
<b>MEDICAL SYMPTOMS:</b>	Symptoms may include irritation to eyes and mucous membranes, (inflammation of nasal mucous membranes), general respiratory distress and unproductive cough. Skin irritation, dryness of skin due to de-fatting. Inhalation of vapour may cause intoxication including drowsiness, disorientation and central nervous system depression.
<b>MEDICAL CONSIDERATIONS:</b>	Skin disorders and allergies.

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## 12. ECOLOGICAL INFORMATION:

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<b>LC 50, 96 HRS, FISH mg/l:</b>	8300 mg/l (96 hours)
<b>ECOLOGICAL INFORMATION:</b>	Prevent contamination of soil, drains or surface water, use appropriate containment method to avoid environmental contamination.
<b>MOBILITY:</b>	Soluble in water. Lost within short period through evaporation and dissolution.
<b>BIO ACCUMULATION:</b>	Not expected to bio-accumulate.
<b>DEGRADABILITY:</b>	Poses a significant risk of oxygen depletion in aquatic systems. Environmental half-life expected to be 1-<10 days. Readily biodegradable.

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## 13. DISPOSAL CONSIDERATIONS:

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<b>DISPOSAL METHODS:</b>	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.
<b>WASTE CLASS:</b>	WASTE CODE: 0705** HAZARDOUS PROPERTY: H3-A, (H4)

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## 14. TRANSPORT INFORMATION:

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<b>UN No. ROAD:</b>	1090
<b>ADR CLASS No.:</b>	3
<b>ADR CLASS:</b>	Class 3: Flammable liquids.

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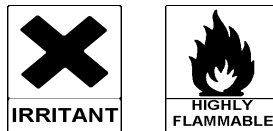
**ADR ITEM No.:** 3°(b)  
**HAZARD No. (ADR):** 33 Highly flammable liquid (flash-point below 23°C).  
**ADR MARGINAL:** 2301  
**ADR LABEL No.:** 3  
**HAZCHEM CODE:** 2YE  
**CEFIC TEC(R) No.:** 30  
**PROPER SHIPPING NAME I:** ACETONE  
**ROAD TRANSPORT NOTES:** Flash point: -18°C  
**UN No. SEA:** UN 1090  
**IMDG CLASS:** 3.1  
**IMDG PAGE No.:** 3102  
**IMDG PACK GR.:** II  
**UN No., AIR:** UN-ID 1090  
**ICAO CLASS:** 3  
**AIR PACK GR.:** II

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## 15. REGULATORY INFORMATION:

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### LABEL FOR SUPPLY:



**RISK PHRASES:** R-11 Highly flammable.  
R-36 Irritating to eyes.  
R-66 Repeated exposure may cause skin dryness or cracking.  
R-67 Vapours may cause drowsiness and dizziness.

**SAFETY PHRASES:** S-2 Keep out of reach of children.  
S-9 Keep container in a well ventilated place.  
S-16 Keep away from sources of ignition - No Smoking.  
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.

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## 16. OTHER INFORMATION:

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

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

**ISSUED BY:** MK

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**SDS No.:** 005

**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.