



SAFETY DATA SHEET

ACETONE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: ACETONE

SYNONYMS, TRADE NAMES: PROPAN-2-ONE

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EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

Classification (1999/45): Xi;R36. F;R11. R66, R67

Classification (EC 1272/2008):

Physical and Chemical Hazards	Flam. Liq. 2 – H225
Human Health	EUH066;Eye Irrit. 2 – H319;STOT SE 3 – H336
Environment	Not classified

Label in accordance with (EC) No. 1272/2008



Signal Word: Danger

Contains: Acetone

Hazard Statements:

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Precautionary Statements:

P210	Keep away from heat/sparks/open flames/hot surfaces – No Smoking
P261	Avoid breathing vapours
P280	Wear protective gloves
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P370+378A	In case of fire: Use foam, carbon dioxide, dry powder or other inert material for extinction. Do not use high pressure water jet as this may spread burning material.
P501D	Empty containers may contain residual product and vapours. Do not cut or weld on or near empty containers. Disposal should only be by means of a licensed waste disposal contractor.

Supplementary Precautionary Statements:

P243	Take precautionary measures against static discharge
P271	Use only outdoors or in well-ventilated area
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+233+235	Store in well-ventilated place. Keep container tightly closed, Keep cool.

Supplemental Label Information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.
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3 COMPOSITION/INFORMATION ON INGREDIENTS

ACETONE			>98%
CAS-No.: 67-64-1	EC No.: 200-662-2	Registration Number: 01-2119471330-49-XXXX	
CLASSIFICATION (EC 1272/2008)	CLASSIFICATION (67/548/EEC)		
Flam. Liq. 2 – H225	F;R11		
EUH066	Xi;R36		
Eye Irrit. 2 – H319	R66		
STOT SE 3 – H336	R67		

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

EC (EINECS) NO.	200-662-2
CAS-NO.	67-64-1
Composition Comments	This product is not a mixture

4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove affected person from source of exposure. Provide fresh air, first-aid, warmth and rest. Never give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

NOTES TO PHYSICIAN

No specific first aid measures noted.

INHALATION

If unconscious or breathing is irregular place on their side in the recovery position and ensure their airways are clear. Artificial respiration may be administered by suitably qualified first-aiders if the patient is unconscious or breathing is difficult. Get immediate medical attention.

INGESTION

If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly and seek medical attention if discomfort persists. Keep patient under observation.

SKIN CONTACT

Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Launder clothing before re-use.

EYE CONTACT

Check for contact lenses which must be removed from the eyes before rinsing. Promptly rinse eyes with plenty of clean water while lifting the eyelids. Continue to rinse for at least 15 minutes. Continue until the eyes are free of all traces of contamination. Get medical attention if any discomfort or irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out.

SPECIFIC HAZARDS

In fire conditions this product as well as giving off intense heat may evolve gaseous oxides of carbon and nitrogen. Burning material gives off dense acrid smoke and fumes which may contain other toxic and harmful gases. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface, or an ember.

PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away. Fire water run-off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing (see section 8). Keep unnecessary people at a safe distance.

ENVIRONMENTAL PRECAUTIONS

Do not discharge onto the ground or into water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

SPILL CLEAN UP METHODS

Ventilate well. Extinguish all ignition sources. Avoid sparks, flames, heat. No smoking. Keep flammable materials away from spillage. Clean-up personnel should use a respirator and liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Wash well after dealing with spillage. Inform authorities if large amounts are involved. Rinse site with copious amounts of water, which should not be allowed into drains, sewers or water courses.

7 HANDLING AND STORAGE

USEAGE PRECAUTIONS

Use only with adequate ventilation. Do not breathe vapour or mist. Keep away from heat, sparks or flame. Containers and equipment must be bonded to avoid static discharge. Use only electrical equipment suitable for explosive atmospheres. Avoid spilling, skin and eye contact. Wash thoroughly after handling.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep away from food, drink and animal feeding stuffs. Store away from oxidising materials.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA – 8 hrs		STEL – 15 min		Notes
ACETONE	WEL	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³	

WEL = Workplace Exposure Limit.

STD

WEL = Workplace Exposure Limits

PROCESS CONDITIONS

Provide eyewash station

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

If ventilation is insufficient suitable respiratory protection must be provided. Seek advice and recommendations of the manufacturer or supplier of equipment.

HAND PROTECTION

Wear suitable protective gloves conforming to EN 374. Seek recommendations from manufacturer or supplier. Suitable gloves may include – Butyl rubber, Neoprene, nitrile, polyethylene or PVC. After using gloves the hands should be washed and thoroughly dried and a suitable moisturiser applied.

EYE PROTECTION

Wear tightly fitting safety goggles conforming to EN166. Contact lenses should not be worn when working with this chemical!

OTHER PROTECTION

Provide eyewash station and safety shower. Minimise all forms of skin contact. Overalls and footwear with oil and chemical resistant soles should be worn. Launder overalls and undergarments regularly.

HYGIENE MEASURES

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothes should be removed and laundered before re-use.

SKIN PROTECTION

Avoid prolonged and/or repeated contact with skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Colour:	Colourless
Odour:	Characteristic
Volatility Description:	Highly Volatile
Solubility:	Completely miscible with water
Boiling Point (°C):	56°C
Melting Point (°C):	-95°C
Relative Density:	0.79 @ 20°C

Vapour Pressure:	240 hPa 20°C		
Volatile by Vol. (%):	100		
pH-Value Conc. Solution:	5-6 @ 20°C		
Viscosity:	0.33 @ 20°C mPas 25°C		
Flash Point (°C):	-17°C		
Auto Ignition			
Temperature:	465°C		
Flammability Limit – Lower (%):	2.2	Flammability Limit – Upper (%):	12.8
Partition Coefficient (N-Octanol/Water):	-0.24 @ 20°C	Volatile Organic Compound (VOC):	100% (EC/1999/13)
Solubility Value (g/100g H2O@20°C):	Miscible		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal conditions of storage and use. See Section 7.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong oxidising agents, acids and bases. Peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 – LD 50 5800 mg/kg (oral rat)

TOXIC DOSE 2 – LD 50 2000 mg/kg (dermal-rbt)

TOXICOLOGICAL INFORMATION

Normal precautions necessary for the handling of all chemicals and the information and advice provided in this Safety Data Sheet (SDS) should be observed.

INHALATION

Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea

SKIN CONTACT

Can cause de-fatting and dryness of skin, leading to cracking and eczema. Unlikely to cause harm on brief contact, but prolonged exposure may lead to dermatitis.

ROUTE OF ENTRY

Inhalation. Skin absorption.

12 ECOLOGICAL INFORMATION

MOBILITY

Contamination will evaporate from the surface of water and soils.

BIOACCUMULATION

The product is not bioaccumulating.

DEGRADABILITY

The product is easily biodegradable.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Empty containers may contain residual product and flammable vapours. Keep away from sparks, heat and sources of ignition. Labels should not be removed. Empty unlaundered containers must be treated in the same manner as when full; labels should not be removed.

DISPOSAL METHODS

Product is classified as hazardous waste. Disposal of waste material and empty containers must be by means of a licensed waste contractor.

WASTE CLASS

European Waste Catalogue numbers must be determined from the nature of use and process from which the waste arises.

14 TRANSPORT INFORMATION



PROPPER SHIPPING NAME	ACETONE
UN NO ROAD	1090
ADR CLASS NO	3
ADR CLASS	Class 3: Flammable Liquids
ADR PACK GROUP	II
TUNNEL RESTRICTION CODE	(D/E)
HAZARD NO (ADR)	33
ADR LABEL NO	3
HAZCHEM CODE	●2YE
UN NO SEA	1090
IMDG CLASS	3
IMDG PACK GR	II
EMS	F-E, S-D
UN NO AIR	1090
AIR CLASS	3
AIR PACK GR	II

15 REGULATORY INFORMATION

EU DIRECTIVES

Dangerous Substances Directive 67/548/EEC

Dangerous Preparations Directive 1999/45/EC

EC Regulation 1907/2006 (as amended): 'REACH'

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments (as amended).

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 SI No 716 (CHIP4). Control of Substances Hazardous to Health Regulations (as amended). (COSHH) Refer to Revised guidance 6th Edition 2013 <http://www.hse.gov.uk/pubns/ priced/15.pdf> Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. (CDG 2009) Environmental Protection (Duty of Care) Regulations.

GUIDANCE NOTES

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG(108).

16 OTHER INFORMATION

HAZARD STATEMENTS IN FULL

H319	Causes serious eye irritation
H225	Highly flammable liquid and vapour
H336	May cause drowsiness or dizziness
EUH066	Repeated exposure may cause skin dryness or cracking

DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.