

SAFETY DATA SHEET

ACETONE (PURE) (HP)

mace001

1. Identification of the substance/preparation and of the company/undertaking

Product name : ACETONE (PURE) (HP) **Supplier** : Albion Chemical Distribution
 Albion House
 Rawdon Park
 Green Lane
 Yeadon
 Leeds
 LS19 7XX

Chemical product name : PROPANONE

Synonyms : DIMETHYL KETONE

Chemical formula : CH₃-CO-CH₃

EMERGENCY ONLY TELEPHONE NUMBER : (N.C.E.C. CULHAM) 01865 407333 **Telephone No.** : (0113) 3879200

Fax No. : (0113) 3879280

Formula : CH₃COCH₃ **Molecular Mass** : 58

2. Composition/information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) PROPANONE	67-64-1	100	200-662-2	F, Xi	R11, R36, R66, R67

* Occupational Exposure Limit(s), if available, are listed in Section 8

CAS No. : 67-64-1
EINECS Number : 200-662-2

3. Hazards identification

Physical/chemical Hazards : Highly flammable.

Human health hazards : Irritating to eyes.
 Repeated exposure may cause skin dryness or cracking.
 Vapours may cause drowsiness and dizziness.

4. First-aid measures

First-Aid measures

Inhalation : Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. Do not use mouth to mouth ventilation. Obtain medical attention urgently.

Ingestion : Obtain medical attention. Give nothing by mouth. Do not induce vomiting.

Skin contact : Wash skin with soap and water. Remove contaminated clothing as washing proceeds. Obtain medical attention if blistering occurs or redness persists.

Eye Contact : Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention urgently.

Effects and symptoms

Inhalation : Exposure to vapour at high concentrations may have the following effects:- irritation of nose, throat and respiratory tract. nausea. loss of coordination. loss of consciousness.

Ingestion : Swallowing may have the following effects:- irritation of mouth, throat and digestive tract. nausea. loss of coordination. loss of consciousness.

Skin contact : Material may cause irritation. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

Eye Contact : Liquid or vapour will cause conjunctival irritation.

Aggravating conditions : Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

5. Fire-fighting measures

Extinguishing Media

Suitable : Select extinguishing agent appropriate to other materials involved. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water jet. Keep containers and surroundings cool with water spray.

Unusual fire/explosion Hazards : Hazardous Combustion Products : CARBON OXIDES

This product may give rise to hazardous fumes in a fire. Vapours can travel a considerable distance to a source of ignition and flashback. The vapours are heavier than air and will collect in workpits and cellars, creating a fire and respiratory hazard.

Hazardous thermal (de)composition products : In combustion emits toxic fumes

Special fire-fighting procedures : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters : Wear full protective clothing and self-contained breathing apparatus.

6. Accidental release measures

Personal Precautions : Ventilate the area to dispel residual vapours. Wear appropriate protective clothing. Eliminate all sources of ignition. Consider need for evacuation. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations.

Environmental precautions and cleanup methods : Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

: Try to prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. Handling and storage

Handling : Use in well ventilated area. Avoid contact with eyes, skin and clothing. Avoid inhaling vapour.

Storage : Storage area should be: cool. under cover. well ventilated. out of direct sunlight. Store away from sources of heat or ignition. Storage and transfer equipment should be adequately earthed and bonded to prevent the accumulation of static charges. Obtain specialist advice in the choice of electrical equipment. Smoke detectors and automatic water sprinklers are strongly recommended for all storage and work areas. Suitable storage materials are:- mild steel. glass reinforced plastic. polyethylene. Zinc silicate, epoxy and poly urethane coatings are compatible with hydrocarbon solvents.

Packaging materials

Recommended use : Use original container.

8. Exposure controls/personal protection

Engineering measures : 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 close to the workstation location.

Hygiene measures : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Workplace Exposure Limits</u>
1) PROPANONE	EH40 (United Kingdom (UK)). MEL: 1210 mg/m ³ STEL: 3620 mg/m ³

Personal protective equipment

Respiratory system : Respiratory protection if there is a risk of uncontrolled exposure to vapour.

Skin and body : Wear: antistatic footwear

Hands : Nitrile rubber gloves.

Eyes : Chemical goggles.

9. Physical and chemical properties

Physical state : Liquid.

Colour : Colourless.

Odour : Characteristic.

Boiling point : 56.2oC

Melting point : -94.7°C (-138.5°F)

Density : 790.7 g/cm³ at 20°C (68°F)

Vapour density :

Vapour pressure : 181 (mm Hg)

ACETONE (PURE) (HP)

Evaporation rate (butyl acetate = 1)	: 6.6 compared to Butyl acetate.
Solubility	: Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol.
Octanol/water partition coefficient	: The product is more soluble in water; $\log(\text{oil/water}) = -0.2$
pH	: Not available.
Flash point	: -17
Fire Hazards in Presence of Various Substances	: Highly flammable in presence of open flames, sparks and static discharge.
Autoignition temperature	: 465°C
Lower explosion limit	: LOWER: 2.6% UPPER: Less or equal to 13%
Viscosity	: Kinetic: 0.417 cS

10. Stability and reactivity

Stability	: The product is stable.
Conditions to Avoid	: Heat. Hot surfaces. Sources of ignition. Flames
Materials to avoid	: Strong oxidising agents. Strong acids
Hazardous decomposition products	: In combustion emits toxic fumes

11. Toxicological information

Local effects

Skin irritation	: Very slightly hazardous in case of skin contact (irritant).
Eye irritation	: Hazardous in case of eye contact (irritant).
Sensitization	: Non-sensitizer for skin.
Acute toxicity	: Acute oral toxicity (LD50): 5800 mg/kg [Rat]. Acute dermal toxicity (LD50): >20 mg/kg [Rat].
Chronic toxicity	: Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

12. Ecological information

Mobility	: The product will dissolve rapidly in water. If released to soil it will evaporate at a rapid rate.
Persistence/degradability	: Biodegradability: Readily biodegradable.
Bioaccumulative potential	: This product shows a low bioaccumulation potential.
Ecotoxicity	: Not available.

13. Disposal considerations

Methods of disposal ; Waste of residues ; Contaminated packaging	: Incineration is the recommended method of disposal. Dispose of in accordance with all applicable local and national regulations.
Waste Classification	:

14. Transport information

International transport regulations

UN :	UN number	1090
UN :	Proper shipping name	Acetone.
UN :	Class	3
UN :	Packing group	II
UN :	Label	



ADR/RID :	Class	3
ADR/RID :	Item Number	3(b)
ADR/RID :	Hazard identification number	33
TREMCARD TEC(R)		30G30
IMDG :	Proper shipping name	Acetone.

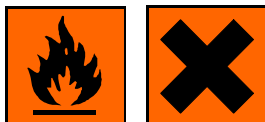
ACETONE (PURE) (HP)

IMDG :	Packing group	II
IMDG :	Class	3
IMDG :	Marine pollutant	No
IMDG :	Ems Number	3-06
IMDG :	MFAG Number	300
IATA :	Proper shipping name	Acetone.
IATA :	Packing group	II
IATA :	Class	3
IATA :	Additional Information	-

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Classification : Highly flammable, Irritant

Risk Phrases : R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness

Safety Phrases : S9- Keep container in a well-ventilated place.
S16- Keep away from sources of ignition - No smoking.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Product Use : Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.
- Consumer applications, Industrial applications.

Other EU regulations

Tactile warning of danger : Yes, applicable.

Restriction to Market Directive : Not applicable.

16. Other information

HISTORY

(Please note that dates are in American format [month/day/year])

Date of printing	: 11/11/2005.
Date of issue	: 11/11/2005.
Date of previous issue	: 25/05/2001.
Version	: 3
Prepared by	: Michael Hale / Alistair Hunter

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

CHANGES SINCE PREVIOUS VERSIONS:

Version 2: Section 8 - OELs added.
Section 15 - Safety phrases ammended.
Minor changer to sections 9 and 12.

Version 3

Page: 4/4