

## SAFETY DATA SHEET

### ACETONE

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

**PRODUCT NAME:** ACETONE

**PART No.:** ACET

**SYNONYMS, TRADE NAMES:** 2-PROPANONE, DIMETHYL KETONE, KETONE PROPANE, METHYL KETONE, PROPANONE

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	EINECS Nr.:	CLASSIFICATION	CONTENT
CAS No.: ACETONE 67-64-1	200-662-2	Xi ,F R-11, 36, 66, 67	99-1000 %

The Full Text for all R-Phrases are Displayed in Section 16

**EU INDEX No.:** 606-001-00-8

**EEC (EINECS) No.** 200-662-2

**CAS No.:** 67-64-1

#### 3. HAZARDS IDENTIFICATION

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

#### 4. FIRST AID MEASURES

**GENERAL:** NOTE! Keep affected person away from heat, sparks and flames! Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**INHALATION:** Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

**INGESTION:** NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Provide rest, warmth and fresh air.

	Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!
<b>SKIN:</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.
<b>EYES:</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

## 5. FIRE FIGHTING MEASURES

<b>EXTINGUISHING MEDIA:</b>	Fire can be extinguished using: Water spray, fog or mist. Foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO <sub>2</sub> ).
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Avoid breathing fire vapours. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Forms explosive mixtures with air. Extremely flammable. May explode in a fire. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.
<b>PROTECTIVE MEASURES IN FIRE:</b>	Wear self-contained breathing apparatus and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTION IN SPILL:</b>	Wear suitable protective clothing as specified under section 8 of this safety data sheet - Exposure Controls and Personal Protection.
<b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b>	Do not allow spilled material to enter drains or water courses.
<b>SPILL CLEANUP METHODS:</b>	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers.

## 7. HANDLING AND STORAGE

<b>USAGE PRECAUTIONS:</b>	Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment. Static electricity and formation of sparks must be prevented.
<b>STORAGE PRECAUTIONS:</b>	Flammable/combustible - Keep away from oxidizers, heat and flames. Keep in cool, dry, ventilated storage and closed containers. Keep in original container. Ground container and transfer equipment to eliminate static electric sparks.
<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>
ACETONE	67-64-1	OES	500 ppm	1500 ppm
<b>INGREDIENT COMMENTS:</b>	OES = Occupational Exposure Standard.			

**PROTECTIVE EQUIPMENT:**

<b>PROCESS CONDITIONS:</b>	Provide eyewash station.
<b>VENTILATION:</b>	Explosion-proof general and local exhaust ventilation.
<b>RESPIRATORS:</b>	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).
<b>PROTECTIVE GLOVES:</b>	Use protective gloves. Use protective gloves made of: Viton rubber (fluor rubber). or Polyvinyl alcohol (PVA).
<b>EYE PROTECTION:</b>	Use approved safety goggles or face shield. Contact lenses should not be worn when working with this chemical!
<b>OTHER PROTECTION:</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
<b>HYGIENIC WORK PRACTICES:</b>	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. No eating or drinking while working with this material.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Liquid.		
<b>COLOUR:</b>	Colourless.		
<b>ODOUR/TASTE:</b>	Acetone, ketone.		
<b>MOL. WEIGHT:</b>	58.08		
<b>BOILING POINT (°C, interval):</b>	56	<b>Pressure:</b>	760mmHg
<b>MELT./FREEZ. POINT (°C, interval):</b>	-95		
<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>	182	<b>Temperature (°C):</b>	20
<b>EVAPORATION RATE:</b>	7.70	<b>Reference:</b>	
<b>EVAPORATION FACTOR:</b>	1.4		
<b>VOLATILE BY VOL. (%):</b>	100		
<b>SOLUBILITY DESCRIPTION:</b>	Slightly soluble in water. Soluble in: Organic solvents (most).		
<b>SOLUBILITY VALUE (g/100g H<sub>2</sub>O 20°C):</b>	100		
<b>ODOUR THRESHOLD, LOWER:</b>	100 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>	465		

FLAMMABILITY LIMIT - LOWER(%): 2.15  
FLAMMABILITY LIMIT - UPPER(%): 13.30

## 10. STABILITY AND REACTIVITY

**STABILITY:** Normally stable.

**CONDITIONS TO AVOID:** Avoid heat, flames and other sources of ignition.

**MATERIALS TO AVOID:** Strong oxidizing agents. Strong acids.

**HAZARDOUS DECOMP. PRODUCTS:** Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

**TOXIC DOSE - LD 50:** 9570 mg/kg (oral rat)

**HEALTH HAZARDS, GENERAL:** Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

**INHALATION:** Vapour may irritate respiratory system or lungs. Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse effects such as irritation of the mucous membrane and the respiratory system and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

**INGESTION:** May cause severe internal injury. May cause stomach pain or vomiting.

**SKIN:** Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

**EYES:** Irritating to eyes. Vapour or spray may cause temporary (reversible) eye damage.

**ROUTE OF ENTRY:** Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

**TARGET ORGANS:** Central nervous system. Eyes. Gastro-intestinal tract. Respiratory system, lungs.

**MEDICAL SYMPTOMS:** High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

## 12. ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Not regarded as dangerous for the environment.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:** Dispose of in accordance with Local Authority requirements. This material and its container must be disposed of as hazardous waste.

## 14. TRANSPORT INFORMATION

**LABEL FOR CONVEYANCE:**



UN No. ROAD: 1090  
UK ROAD TRANSPORT CLASS: 3  
UK ROAD PACK GR.: II  
ADR CLASS No.: 3  
ADR CLASS: Class 3: Flammable liquids.  
ADR ITEM No.: 3(b)  
ADR MARGINAL: 2301  
ADR LABEL No.: 3  
HAZCHEM CODE: 2YE  
CEFIC TEC(R) No.: 30G30  
PROPER SHIPPING NAME I: ACETONE  
RID CLASS No.: 3  
RID ITEM No.: 3(b)  
UN No. SEA: 1090  
IMDG CLASS: 3  
IMDG PAGE No.: 3230  
IMDG PACK GR.: II  
EmS No.: 3-06  
MFAG TABLE No.: See Guide  
MARINE POLLUTANT: No.  
UN No., AIR: 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.

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<b>SAFETY PHRASES:</b>	R-66 Repeated exposure may cause skin dryness or cracking. R-67 Vapours may cause drowsiness and dizziness. S-16 Keep away from sources of ignition - No Smoking. S-2 Keep out of the reach of children. S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-9 Keep container in a well-ventilated place.
<b>STATUTORY INSTRUMENTS:</b>	Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.
<b>APPROVED CODE OF PRACTICE:</b>	Classification and Labelling of Substances and Preparations Dangerous for Supply.
<b>GUIDANCE NOTES:</b>	Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

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## 16. OTHER INFORMATION

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<b>REVISION DATE:</b>	05-04-2003
<b>REV. No./REPL. SDS GENERATED:</b>	001
<b>R-PHRASES (Full Text):</b>	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.