



SAFETY DATA SHEET ACETONE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	ACETONE
PRODUCT NO.	ACETGEN, ACET005, ACET025, ACET200, ACET205, ACETBUL, ACETSBC
SYNONYMS, TRADE NAMES	2-PROPANONE, DIMETHYL KETONE, KETONE PROPANE, METHYL KETONE, PROPANONE
SUPPLIER	J.V. Barrett & Co. Ltd Barrettine Works, St Ivel Way Warmley Bristol BS30 8TY 0117 9600060 0117 935 2437
CONTACT PERSON	E Mail: sales@barrettine.co.uk
EMERGENCY TELEPHONE	0870 1906777

2 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.	606-001-00-8
EC (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.

CLASSIFICATION F;R11 Xi;R36 R66 R67

4 FIRST-AID MEASURES

GENERAL INFORMATION

NOTE! Keep affected person away from heat, sparks and flames! Consult a physician for specific advice.

INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. 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 person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation persists after washing.

EYE CONTACT

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 and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Water spray, fog or mist. Foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO₂).

ACETONE

SPECIAL FIRE FIGHTING PROCEDURES

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.

UNUSUAL FIRE & EXPLOSION HAZARDS

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.

PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear suitable protective clothing as specified under section 8 of this safety data sheet - Exposure Controls and Personal Protection.

ENVIRONMENTAL PRECAUTIONS

Do not allow spilled material to enter drains or water courses.

SPILL CLEAN UP METHODS

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

USAGE PRECAUTIONS

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.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Ground container and transfer equipment to eliminate static electric sparks.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
ACETONE	WEL	500 ppm	1210 mg/m3	1500 ppm	3620 mg/m3

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves. Use protective gloves made of: Viton rubber (fluor rubber). or Polyvinyl alcohol (PVA).

EYE PROTECTION

Use approved safety goggles or face shield. Contact lenses should not be worn when working with this chemical!

ACETONE**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash promptly with soap & water if skin becomes contaminated. Promptly remove non-impervious clothing that becomes wet. Wash at the end of each work shift and before eating, smoking and using the toilet.

9 PHYSICAL AND CHEMICAL PROPERTIES

ODOUR	Acetone, ketone.		
MOL. WEIGHT	58.08	BOILING POINT (°C)	56 760 mm Hg
MELTING POINT (°C)	-95	RELATIVE DENSITY	0.79 @ 20 °c
VAPOUR DENSITY (air=1)	2	VAPOUR PRESSURE	182 @ 20 °c
EVAPORATION RATE	7.70	EVAPORATION FACTOR	1.4
VOLATILE BY VOL. (%)	100	ODOUR THRESHOLD, LOWER	100 ppm
ODOUR THRESHOLD, UPPER	ppm	FLASH POINT (°C)	-18 CC (Closed cup).
FLAMMABILITY LIMIT - LOWER(%)	2.15	FLAMMABILITY LIMIT - UPPER(%)	13.30
SOLUBILITY VALUE (g/100g H ₂ O@20°C)	100		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 9570 mg/kg (oral rat)

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 CONTACT

Prolonged or repeated skin contact with the product may cause removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Absorption of organic solvents through the skin can cause some of the same acute and chronic effects as inhalation.

EYE CONTACT

Irritating to eyes. Irritating and may cause redness and pain.

HEALTH WARNINGS

Irritant of eyes and mucous membranes. CNS depressant. Anaesthetic in high concentrations.

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.

MEDICAL CONSIDERATIONS

Convulsive disorders, CNS problems.

ACETONE**12 ECOLOGICAL INFORMATION**

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. This material and its container must be disposed of as hazardous waste.

14 TRANSPORT INFORMATION

UK ROAD CLASS	3		
PROPER SHIPPING NAME	ACETONE		
UN NO. ROAD	1090	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	3(b)	HAZARD No. (ADR)	33
ADR LABEL NO.	3	HAZCHEM CODE	2YE
CEFIC TEC(R) NO.	30G30	RID CLASS NO.	3
RID PACK GROUP	3(b)	UN NO. SEA	1090
IMDG CLASS	3	IMDG PACK GR.	II
EMS	3-06	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1090
AIR CLASS	3	AIR PACK GR.	II

15 REGULATORY INFORMATION

LABELLING



Irritant



Highly Flammable

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

S2	Keep out of the reach of children
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.

16 OTHER INFORMATION

REVISION DATE: 22/09/2007

ACETONE

ISSUED BY

Chris Hayward

REVISION DATE 22/09/2007

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