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ReAgent

ACETONE TECHNICAL MSDS

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME	ACETONE TECHNICAL
CAS-No.	67-64-1
EU INDEX NO.	606-001-00-8
EC No.	200-662-2
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: info@reagent.co.uk
PRODUCT NO.	2582
APPLICATION	General chemical reagent
EMERGENCY TELEPHONE	Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

2 HAZARDS IDENTIFICATION

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

CLASSIFICATION (67/548) -

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.	606-001-00-8
EC No.	200-662-2
CAS-No.	67-64-1

4 FIRST-AID MEASURES

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, foam, dry powder or carbon dioxide.

ACETONE TECHNICAL**UNUSUAL FIRE & EXPLOSION HAZARDS**

HIGHLY FLAMMABLE! Vapours are heavier than air and may spread near ground to sources of ignition. Forms explosive mixtures with air.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Remove sources of ignition. Small Spillages: Absorb with inert, non-combustible material. Large Spillages: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Ventilate well.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition. Avoid inhalation of vapours/spray and contact with skin and eyes.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in closed original container at temperatures between 15°C and 25°C. Store away from direct sunlight and moisture

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection if vapours or mists are generated. Chemical respirator with organic vapour cartridge. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

HAND PROTECTION

Wear protective gloves. Butyl rubber. Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts. Provide eyewash station and if handling large amounts, a safety shower.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Characteristic		
SOLUBILITY	Miscible with water		
BOILING POINT (°C)	56.2	MELTING POINT (°C)	-95.4
RELATIVE DENSITY	0.79	VAPOUR DENSITY (air=1)	2.01

ACETONE TECHNICAL

VAPOUR PRESSURE	233 hPa 20	pH-VALUE, DILUTED SOLUTION	5-6 (400 g/l, water, 20°C)
FLASH POINT (°C)	< -20	AUTO IGNITION	538
FLAMMABILITY LIMIT - LOWER(%)	2.6	TEMPERATURE (°C)	
		FLAMMABILITY LIMIT - UPPER(%)	13

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Alkali hydroxides Strong acids. Strong oxidising substances. Halogens Nitrosyl compounds Ethanolamine

11 TOXICOLOGICAL INFORMATION

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

INHALATION

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Vapours may cause drowsiness and dizziness.

INGESTION

Gastrointestinal symptoms, including upset stomach. Headache. Nausea, vomiting.

SKIN CONTACT

Product has a defatting effect on skin. May cause secondary inflammation.

EYE CONTACT

Risk of corneal damage.

OTHER HEALTH EFFECTS

Inhalation or ingestion of large amounts may lead to narcosis and coma.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Low acute toxicity to aquatic organisms. Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal.

LC 50, 96 Hrs, FISH mg/l 8300 (L. macrochirus)

EC 50, 48 Hrs, DAPHNIA, mg/l 12600 (Daphnia magna)

MOBILITY

The product is soluble in water.

BIOACCUMULATION

Low bioaccumulation potential.

DEGRADABILITY

Good biodegradability

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS	3	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	ACETONE	ADR CLASS	Class 3: Flammable liquids.
UN NO. ROAD	1090	ADR LABEL NO.	3
ADR CLASS NO.	3	ADR LABEL NO.	3
ADR PACK GROUP	II	ADR LABEL NO.	3
HAZCHEM CODE	2YE	CEPIC TEC(R) NO.	30GF1-I+II

ACETONE TECHNICAL

RID CLASS NO.	3	RID PACK GROUP	II
UN NO. SEA	1090	IMDG CLASS	3
IMDG PAGE NO.	3	IMDG PACK GR.	II
EMS	F-E, S-D	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.
S46	If swallowed, seek medical advice immediately and show this container or label.

UK REGULATORY REFERENCES

Highly Flammable Liquid Regulations 1972. Fire precautions Act 1971.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

REVISION COMMENTS

Change to section 8

REVISION DATE 23/12/2009

REV. NO./REPL. SDS GENERATED 2

SDS NO. 20799

SAFETY DATA SHEET STATUS

Approved.