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# ReAgent

## ACETIC ACID GLACIAL, TECHNICAL MSDS

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME	ACETIC ACID GLACIAL, TECHNICAL
CAS-No.	64-19-7
EU INDEX NO.	607-002-00-6
EC No.	200-580-7
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: <a href="mailto:info@reagent.co.uk">info@reagent.co.uk</a>
PRODUCT NO.	2581
APPLICATION	General chemical reagent
EMERGENCY TELEPHONE	Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

### 2 HAZARDS IDENTIFICATION

Flammable. Causes severe burns.

CLASSIFICATION (67/548) -

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.	607-002-00-6
EC No.	200-580-7
CAS-No.	64-19-7

### 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 and wash before re-use. Rinse the skin immediately with lots of water. Unless contact has been slight and no discomfort is felt, obtain medical attention.

#### EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. 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, dry powder or vaporising liquids

#### UNUSUAL FIRE & EXPLOSION HAZARDS

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

**ACETIC ACID GLACIAL, TECHNICAL****SPECIFIC HAZARDS**

By heating and fire, toxic and corrosive vapours/gases may be formed.

**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 inert, non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Ventilate well. Wash thoroughly after dealing with a spillage.

**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 above the substances freezing point (16C). Store away from direct sunlight and moisture

**STORAGE CLASS**

Corrosive storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****INGREDIENT COMMENTS**

The OES for acetic acid has been withdrawn by the HSE. The quoted value is for guidance only.

**ENGINEERING MEASURES**

Provide adequate ventilation and appropriate extraction to avoid occupational exposure. Work in flameproof fume cupboard.

**RESPIRATORY EQUIPMENT**

Wear suitable respiratory protection if vapours or mists are generated.

**HAND PROTECTION**

Use full length gloves. Use protective gloves made of: Butyl rubber. Viton rubber (fluor 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. Provide eyewash station and safety shower. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts.

**HYGIENE MEASURES**

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

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Acetic acid		
SOLUBILITY	Miscible with water		
BOILING POINT (°C)	118	MELTING POINT (°C)	16.7
RELATIVE DENSITY	1.05	VAPOUR DENSITY (air=1)	2.07
VAPOUR PRESSURE	15.4 hPa 20	pH-VALUE, DILUTED SOLUTION	2.5 1
FLASH POINT (°C)	40	AUTO IGNITION	426
		TEMPERATURE (°C)	
FLAMMABILITY LIMIT - LOWER(%)	4	FLAMMABILITY LIMIT - UPPER(%)	19

**10 STABILITY AND REACTIVITY**

**ACETIC ACID GLACIAL, TECHNICAL****STABILITY**

Stable under normal temperature conditions and recommended use.

**MATERIALS TO AVOID**

Bases. Alcohols, glycols. Metals. Strong oxidising substances. Alkali hydroxides Ethanolamine

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50 3310 mg/kg (oral rat)

TOXIC CONC. - LC 50 11.4 mg/l/4h (inh-rat)

**INHALATION**

Irritating to respiratory system. May cause oedemas in the respiratory tract.

**INGESTION**

Corrosive. Even small amounts may cause serious damage. Causes burns in mouth, oesophagus and stomach. Possible shock and cardiovascular failure.

**SKIN CONTACT**

Causes severe burns.

**EYE CONTACT**

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Possible blindness.

**TARGET ORGANS**

Kidneys.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Do not allow to enter drinking water, waste water or soil. Ecological effects cannot be excluded in the event of improper handling or disposal.

LC 50, 96 Hrs, FISH mg/l 75 (L. macrochirus)

**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	8		
PROPER SHIPPING NAME	ACETIC ACID, GLACIAL		
UN NO. ROAD	2789	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	ADR LABEL NO.	8 & 3
HAZCHEM CODE	2P	CEFIC TEC(R) NO.	80GCF1-II
RID CLASS NO.	8	RID PACK GROUP	II
UN NO. SEA	2789	IMDG CLASS	8
IMDG PAGE NO.	8 & 3	IMDG PACK GR.	II
EMS	F-E, S-C	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	2789
AIR CLASS	8	AIR SUB CLASS	3
AIR PACK GR.	II		

**15 REGULATORY INFORMATION**

**ACETIC ACID GLACIAL, TECHNICAL**

## LABELLING



Corrosive

## RISK PHRASES

R10 Flammable.  
 R35 Causes severe burns.

## SAFETY PHRASES

S23 Do not breathe vapour/spray.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
 S1/2 Keep locked up and out of the reach of children.

## EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## STATUTORY INSTRUMENTS

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

## APPROVED CODE OF PRACTICE

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

## GUIDANCE NOTES

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

## 16 OTHER INFORMATION

## GENERAL INFORMATION

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

## REVISION COMMENTS

Change to section 15

REVISION DATE 04/02/2010

REV. NO./REPL. SDS GENERATED 2

SDS NO. 20798

## SAFETY DATA SHEET STATUS

Approved.