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ReAgent

PERCHLORIC ACID 0.01M IN GLACIAL ACETIC ACID MSDS

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

PRODUCT NAME PERCHLORIC ACID 0.01M IN GLACIAL ACETIC ACID

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PRODUCT NO. 2327

APPLICATION General chemical reagent

2 HAZARDS IDENTIFICATION

Flammable. Causes severe burns.

CLASSIFICATION (1999/45) C;R35. R10.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
ACETIC ACID ...%	200-580-7	64-19-7	60-100%	R10 C;R35

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

4 FIRST-AID MEASURES

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. Get medical attention immediately.

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.

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.

PERCHLORIC ACID 0.01M IN GLACIAL ACETIC ACID**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**

Avoid spilling, skin and eye contact. Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry and cool place.

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 including appropriate local extraction to maintain airborne concentrations at a low level. Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

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 goggles/face shield.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and 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. 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	RELATIVE DENSITY	1.05
pH-VALUE, CONC. SOLUTION	<1	FLASH POINT (°C)	40
FLAMMABILITY LIMIT - LOWER(%)	4	FLAMMABILITY LIMIT - UPPER(%)	16

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

Bases, alkalis (inorganic). Bases, alkalis (organic). Alcohols, glycols. Strong oxidising substances. Metals.

11 TOXICOLOGICAL INFORMATION

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

INHALATION

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

INGESTION

Corrosive. Even small amounts may cause serious damage.

PERCHLORIC ACID 0.01M IN GLACIAL ACETIC ACID

SKIN CONTACT

Causes severe burns.

EYE CONTACT

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

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

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	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ACETIC ACID , PERCHLORIC ACID)		
UN NO. ROAD	2920	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	HAZARD No. (ADR)	83
ADR LABEL NO.	8 & 3	HAZCHEM CODE	2W
CEFIC TEC(R) NO.	80GCF1-II	RID CLASS NO.	8
RID PACK GROUP	II	UN NO. SEA	2920
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	2920	AIR CLASS	8
AIR SUB CLASS	3	AIR PACK GR.	II

15 REGULATORY INFORMATION

LABELLING



Corrosive

CONTAINS ACETIC ACID 99.86%

RISK PHRASES

- R10 Flammable.
- R35 Causes severe burns.

SAFETY PHRASES

- 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).
- S51 Use only in well-ventilated areas.
- S24/25 Avoid contact with skin and eyes.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S60 This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

Highly Flammable Liquid Regulations 1972. Fire precautions Act 1971.

PERCHLORIC ACID 0.01M IN GLACIAL ACETIC ACID

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 7.

REVISION DATE February 2006

REV. NO./REPL. SDS GENERATED Supercedes issue August 2005

SDS NO. 10871

RISK PHRASES IN FULL

R35 Causes severe burns.

R10 Flammable.