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SAFETY DATA SHEET

Acetic Acid 20%

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

PRODUCT NAME Acetic Acid 20%

SUPPLIER Barrettine
Barrettine Works
St Ivel Way
Warmley
Bristol
BS30 8TY
0117 960 0060
0117 935 2437
sales@barrettine.co.uk

EMERGENCY TELEPHONE 0870 190 6777

2 HAZARDS IDENTIFICATION

Irritating to eyes and skin.

CLASSIFICATION Xi;R36/38.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
acetic acid	200-580-7	64-19-7	20%	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. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Immediately rinse mouth and drink copious amounts of water to dilute the swallowed chemical. Keep the patient under observation. Do not induce vomiting. If vomiting occurs keep head low.

Transport patient to hospital immediately and take these instructions.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Do not use high pressure water jet as this may spread burning material.

SPECIAL FIRE FIGHTING PROCEDURES

Contaminated fire water must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

SPECIFIC HAZARDS

Corrosive to skin and eyes. Products of decomposition / combustion include: Carbon monoxide (CO). Carbon dioxide (CO₂).

PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away. Fire water run-off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

Acetic Acid 20%

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing (see Section 8). Keep unnecessary people at a safe distance.

ENVIRONMENTAL PRECAUTIONS

Do not allow ANY environmental contamination. Cover all drains and sewers. Avoid spreading spilled material.

SPILL CLEAN UP METHODS

DO NOT TOUCH SPILLED MATERIAL! Stop leak if possible without risk. Cover spillage with sodium bicarbonate or similar powdered alkali. Add small amount of water and mix. Absorb spillage with suitable absorbent material. Flush area with plenty of water. Flushings must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against water run-off.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Use only with adequate ventilation. Avoid inhalation of vapours. Avoid prolonged or repeated contact, use suitable protective goggles, gloves and clothing. (see section 8). Do not eat, drink or smoke when using the product.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
acetic acid	OES	20 ppm	37 mg/m3	50 ppm	92 mg/m3

STD

OES = Occupational Exposure Standard (EH40/2002)

PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Do not handle in confined spaces without sufficient ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient suitable respiratory protection must be provided. Seek recommendations and advice from equipment manufacturer or supplier.

HAND PROTECTION

Wear suitable protective gloves. Seek recommendations from manufacturer or supplier. After using gloves the hands should be washed and dried thoroughly and a suitable moisturiser applied. Suitable gloves may include - Butyl rubber. Polyethylene.

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

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 contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear colourless liquid.		
ODOUR	Pungent		
SOLUBILITY	Miscible with water. Soluble in Ethanol. Acetone		
RELATIVE DENSITY	1.0 (approx)	pH-VALUE, CONC. SOLUTION	1 (approx)

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal conditions of storage and use. See section 7.

MATERIALS TO AVOID

Acids Bases. Oxidising agents. hydrogen peroxide Finely powdered metals.

Acetic Acid 20%

HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition can lead to the formation of toxic gases or fumes, including carbon monoxide (CO) and carbon dioxide (CO₂)

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 >2000 mg/kg (oral rat)

GENERAL INFORMATION

Vapour will irritate the membranes of nose, throat, lungs and eyes.
Liquid or vapour may cause severe eye damage.

INHALATION

Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing.

INGESTION

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

SKIN CONTACT

Prolonged contact may cause skin irritation.

EYE CONTACT

Irritating and may cause redness and pain.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Avoid release to the environment. Prevent contamination of soil, drains or surface water, use appropriate containment to avoid environmental contamination.

LC 50, 96 Hrs, FISH mg/l 106

MOBILITY

The product is water soluble and may spread in water systems. Contamination will evaporate from the surface of water and soils.

BIOACCUMULATION

The product is not bioaccumulating.

DEGRADABILITY

Readily biodegradable. Poses a significant risk of oxygen depletion in aquatic systems.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Do not dispose to landfill or in water courses.

DISPOSAL METHODS

Product is classified as hazardous waste. Disposal of waste material and empty containers must be by means of a licensed waste contractor.

14 TRANSPORT INFORMATION



UK ROAD CLASS	8		
PROPER SHIPPING NAME	ACETIC ACID SOLUTION		
UN NO. ROAD	2790	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	HAZARD No. (ADR)	80
ADR LABEL NO.	8	HAZCHEM CODE	2R
CEFIC TEC(R) NO.	80GC3-II+III	RID CLASS NO.	8
RID PACK GROUP	III	UN NO. SEA	2790
IMDG CLASS	8	IMDG PACK GR.	III
EMS	F-A, S-B	MARINE POLLUTANT	No.

Acetic Acid 20%UN NO. AIR 2790
AIR PACK GR. III

AIR CLASS

8

15 REGULATORY INFORMATION

LABELLING



Irritant

RISK PHRASES

R36/38 Irritating to eyes and skin.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

S24/25 Avoid contact with skin and eyes.

S56 Dispose of this material and its container to hazardous or special waste collection point.

EU DIRECTIVES

EC Regulation 1907/2006 (as amended) : 'REACH'.

Dangerous Substances Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 No. 1689. (CHIP3)

Control of Substances Hazardous to Health Regulations (as amended). (COSHH)

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. (CDG 2007)

APPROVED CODE OF PRACTICE

Control of substances hazardous to health - Approved Code of Practice and Guidance L5 (2005) HSE Books.

Approved classification and labelling guide L131 (Fifth Edition - 2002)

GUIDANCE NOTES

CHIP for everyone HSG(108).

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

16 OTHER INFORMATION

REVISION COMMENTS

First Issue.

REVISION DATE 15-Aug-08 - Rev 00

REV. NO./REPL. SDS 00 --

GENERATED

RISK PHRASES IN FULL

R10 Flammable.

R35 Causes severe burns.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.