

**SAFETY DATA SHEET**  
**ACETIC ACID GLACIAL / CHLOROFORM MIX 3:2 V/V**

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

PRODUCT NAME ACETIC ACID GLACIAL / CHLOROFORM MIX 3:2 V/V  
 PRODUCT NO. 6186  
 APPLICATION General chemical reagent  
 SUPPLIER Reagent Chemical Services  
 18 Aston Fields Road  
 Whitehouse Industrial Estate  
 Runcorn  
 Cheshire WA7 3DL  
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 E: info@reagent.co.uk

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ACETIC ACID ...%	200-580-7	64-19-7	30-60%	R10 C;R35
TRICHLOROMETHANE	200-663-8	67-66-3	30-60%	Carc3;R40 Xn;R22,R48/20/22 Xi;R38

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

### 3 HAZARDS IDENTIFICATION

Harmful if swallowed. Causes burns. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

CLASSIFICATION Xn;R22, R48/20/22. Carc 3;R40. C;R34.

### 4 FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention.

#### INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately!

#### SKIN CONTACT

Immediately remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention immediately.

#### EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. 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

Water spray, dry powder or vaporising liquids

#### SPECIAL FIRE FIGHTING PROCEDURES

Combustible

#### SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed. Acetic acid. Hydrogen chloride (HCl). Phosgene (COCl<sub>2</sub>).

#### 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. Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water.

**ACETIC ACID GLACIAL / CHLOROFORM MIX 3:2 V/V****7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry and cool place.

**STORAGE CLASS**

Corrosive storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
TRICHLOROMETHANE	OES	2 ppm(Sk)	9.9 mg/m3(Sk)		
ACETIC ACID ...%	OES	10 ppm	25 mg/m3	15 ppm	37 mg/m3

**INGREDIENT COMMENTS**

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

**ENGINEERING MEASURES**

Work in fume cupboard. Explosion-proof general and local exhaust ventilation.

**RESPIRATORY EQUIPMENT**

In case of inadequate ventilation use suitable respirator.

**HAND PROTECTION**

Use full-length gloves. Viton rubber (fluor rubber). Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL).

**EYE PROTECTION**

Wear goggles/face shield.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

**HYGIENE MEASURES**

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	Partially soluble in water		
pH-VALUE, CONC. SOLUTION	About 1	FLASH POINT (°C)	>61

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Contact with hot surfaces liberates phosgene.

**MATERIALS TO AVOID**

Alkali metals. Alkali earth metals. Powdered metal. Strong alkalis. Ketones. Alcohols, glycols. Inorganic peroxides. Aldehydes. Strong oxidising substances. Metals.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Hydrogen chloride (HCl). Phosgene (COCl<sub>2</sub>).

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50	908 (Chloroform) mg/kg (oral rat)
TOXIC DOSE 2 - LD 50	3310 (Acetic acid) mg/kg (oral rat)
TOXIC CONC. - LC 50	11.4 (Acetic acid) mg/l/4h (inh-rat)

**INHALATION**

Harmful by inhalation.

**INGESTION**

May cause chemical burns in mouth, oesophagus and stomach. Corrosive. Even small amounts may cause serious damage.

**SKIN CONTACT**

Causes burns.

**EYE CONTACT**

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

**ACETIC ACID GLACIAL / CHLOROFORM MIX 3:2 V/V****HEALTH WARNINGS**

Chloroform: Embryotoxic effect probable Pregnant women should not be exposed to this substance.

**Other Health Effects**

Chloroform: Carcinogen Category 3. May cause adverse mutagenic or teratogenic effects.

**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, TOXIC, N.O.S. (ACETIC ACID ...%, TRICHLOROMETHANE)		
UN NO. ROAD	2922	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	HAZARD No. (ADR)	86
ADR LABEL NO.	8 & 6.1	HAZCHEM CODE	2XE
CEFIC TEC(R) NO.	80GCT1-II+III	RID CLASS NO.	8
RID PACK GROUP	II	UN NO. SEA	2922
IMDG CLASS	8	IMDG PAGE NO.	8 & 6.1
IMDG PACK GR.	II	EMS	F-A, S-B
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	2922	ICAO CLASS	8
AIR SUB CLASS	6.1	AIR PACK GR.	II

**15 REGULATORY INFORMATION****LABELLING**

Corrosive



Harmful

**CONTAINS**ACETIC ACID 60%  
TRICHLOROMETHANE**RISK PHRASES**

R22	Harmful if swallowed.
R34	Causes burns.
R40	Limited evidence of a carcinogenic effect.
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

**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.
P10	For use in industrial installations only.

## ACETIC ACID GLACIAL / CHLOROFORM MIX 3:2 V/V

### 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

Occupational 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

### REVISION COMMENTS

Change to section 8

REVISION DATE August 2005

REV. NO./REPL. SDS GENERATED Supercedes issue January 2004

SDS NO. 10267

### RISK PHRASES IN FULL

R10 Flammable.

R22 Harmful if swallowed.

R35 Causes severe burns.

R38 Irritating to skin.

R40 Limited evidence of a carcinogenic effect.

R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.