

## Safety Data Sheet

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY**

**PRODUCT NAME** ACETIC ACID (GLACIAL)  
Ethanoic Acid

**PRODUCT CODE** 63113x

**SUPPLIER** Clin-Tech Limited  
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**2. HAZARDS IDENTIFICATION**CLASSIFICATION ACCORDING TO REGULATION (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 3) H226  
Skin corrosion (Category 1A) H314

LABELLING ACCORDING TO REGULATION (EC) No 1272/2008 [EU-GHS/CLP]

DANGER

Hazard statement(s)

H226 Flammable liquid and vapour  
H314 Causes severe skin burns and eye damage

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 Immediately call a POISON CENTER or doctor/physician

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Name	EC #	CAS #	Content	Formula	Molar Mass
ACETIC ACID	200-580-7	64-19-7	≥99.5%	CH <sub>3</sub> COOH	60.05 g/mol

**4. FIRST-AID MEASURES**INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get prompt medical attention.

## INGESTION

Do not induce vomiting. Never make an unconscious person vomit or drink fluids. Rinse mouth with water. Get medical attention immediately.

## SKIN CONTACT

Remove contaminated clothes immediately and rinse skin thoroughly with soap and water. Take victim to hospital immediately. Consult a physician.

## EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention.

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## **5. FIRE-FIGHTING MEASURES**

### EXTINGUISHING MEDIA

Use: Water spray, Alcohol-resistant foam, Dry chemicals, or Carbon dioxide .

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Forms harmful carbon oxides on combustion.

### PROTECTIVE MEASURES IN FIRE

Self-contained breathing apparatus if necessary.

### FURTHER INFORMATION

Cool unopened containers with water spray.

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## **6. ACCIDENTAL RELEASE MEASURES**

### PERSONAL PRECAUTIONS

Evacuate personnel to safe area. Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. Remove all sources of ignition.

### ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Stop further spillage if possible without risk.

### SPILL CLEAN-UP METHODS

Provide ventilation and confine spill if safe to do so. Do not allow runoff to sewer. Inform Authorities if large amounts are involved. Absorb with vermiculite, dry sand or earth – do NOT use sawdust or other combustible materials. Shovel up residue and collect for authorised disposal (see section 13). Flush area with plenty of water.

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## **7. HANDLING & STORAGE**

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid vapour inhalation. Keep away from sources of ignition. Provide adequate exhaust function. Never add water to acid!

## STORAGE PRECAUTIONS

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

## STORAGE CLASS

Chemical storage.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

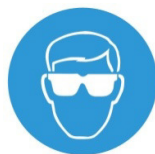
Name	Std	8h TWA		STEL	
ACETIC ACID	WEL	10 ppm	25 mg/m <sup>3</sup>	15 ppm	35 mg/m <sup>3</sup>

*WEL – Workplace Exposure Limit; 8h TWA – 8-hour Time-Weighted Average; STEL – Short-Term EL.*

## ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

## PROTECTIVE EQUIPMENT



## HAND PROTECTION

Use protective gloves. The most suitable glove should be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

## EYE PROTECTION

Wear approved, tight-fitting safety glasses where splashing or mist is probable.

## RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where high vapour levels are likely.

## OTHER PROTECTION

Provide eyewash station.

## 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 contaminated. Wash promptly with soap & water if skin becomes contaminated.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless liquid
ODOUR	Pungent; vinegar
(SOLUBILITY) / MISCIBLE WITH:	Water
MELTING POINT	~ 16 °C
BOILING POINT	~ 117 °C
FLASH POINT (CLOSED CUP)	~ 40 °C
AUTOIGNITION TEMP	~ 485 °C

SPECIFIC GRAVITY	1.05 @ 20 °C
EXPLOSION LIMIT – UPPER	19.9 %
EXPLOSION LIMIT – LOWER	4 %

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## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### INCOMPATIBLE MATERIALS

Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols.

### CONDITIONS TO AVOID

Heat, flames and sparks.

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## 11. TOXICOLOGICAL INFORMATION

<u>TOXIC DOSE</u>	LD 50	Oral, Rat	3310 mg/kg
	LD 50	Dermal, Rabbit	1112 mg/kg
	LC 50	Inhalation, Mouse	5620 mg/kg

### RESPIRATORY OR SKIN SENSITIZATION

May cause sensitisation by skin contact.

### INHALATION

Toxic if inhaled. Extremely destructive to mucous membranes and upper respiratory tract.

### INGESTION

May be harmful if swallowed. Causes burns.

### SKIN CONTACT

Harmful if absorbed through skin. Causes skin burns.

### EYE CONTACT

Causes eye burns.

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## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY

Not regarded as dangerous for the environment. However, the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

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## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

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

## 14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	2789	8 (3)	II	Acetic Acid, Glacial
<u>IATA</u>	2789	8 (3)	II	Acetic Acid, Glacial
<u>IMDG</u>	2789	8 (3)	II	Acetic Acid, Glacial

### SIGNAGE



### Environmental Hazards

RID / ADR	No
IATA	No
IMDG	No

## 15. REGULATORY INFORMATION

### STATUTORY INSTRUMENTS

This MSDS complies with regulation (EC) no. 1907/2006.  
Workplace Exposure Limits EH40/2011.

## 16. OTHER INFORMATION

### GENERAL INFORMATION

This safety data sheet covers all codes for this product.

### REVISION INFORMATION

Revision No.	3
Revision Date	07/2014
Comments	CHIP regulations removed
Replaces Document Generated	03/2012

### HAZARD STATEMENTS IN FULL

H226	Flammable liquid and vapour
H314	Causes severe skin burns and eye damage