## **2** actylis

Product Name Acetic Acid Glacial

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### **1.1. Product identification:**

Product Description: Acetic acid Glacial
Synonyms: Ethanoic acid, Glacial Acetic acid, Methane carboxylic acid
CAS-No: 64-19-7
EC-No.: 200-580-7
Molecular Formula: CH<sub>3</sub>COOH

**REACH Registration No:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is Envisaged for a later registration deadline.

## **1.2.** Relevant identified uses of the substance or mixture and uses advised against: Recommended Use: Laboratory chemicals, used as a pharma excipient.

#### **1.3.** Details of the supplier of the safety data sheet:

•	Company	Finar Limited	
		184-186/P, Chacharwadi Vasna,	
		Sarkhej-Bavla Highway,	
		Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.	
		Web: www.finarchemicals.com	
•	E-Mail Address	safety.finar@actylis.com; info.finar@actylis.com	

### **1.4. Emergency Telephone Number:**

- For Emergency contact on: +91 - 2717 - 616 717

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## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture:

## Classification according to Regulation (EC) No 1272/2008

Flammable liquid, Category 6, H226

Skin corrosion, Category 1A, H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2. Label Elements:

## Labeling according Regulation (EC) No 1272/2008

Pictogram



Signal word: Danger

Hazard statement(s)

H226 Flammable liquid and vapour.

H314 Causes severe skin burn and eye damage.

## **Precautionary statement(s)**

Prevention

P210 Keep away from heat.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Immediately call a doctor / physician.

Reduced labelling (≤125 ml) Pictogram



Product Name Acetic Acid Glacial



Signal word: Danger

Hazard statement(s)

H314 Causes severe skin burn and eye damage.

#### **Precautionary statement(s)**

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Immediately call a doctor / physician.

#### 2.3. Other Hazards:

None Known

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1.** Substances: Acetic acid Glacial

#### 3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Acetic acid Glacial	64-19-7	200-580-7	>99

## **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures:

• General advice

First aider needs to protect himself.

• If inhaled

Fresh air. Immediately call in physician.

• If Contact with skin

Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

• In case of eye contact

Rinse immediately with plenty of water, Call in ophthalmologist. Remove contact lenses.

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## • If swallowed

Immediately make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

## **4.2. Most important symptoms and effects, both acute and delayed:** Irritation and corrosion, bronchitis, Shortness of breath, gastric spasms, Nausea, Vomiting, Circulatory collapse, shock. Risk of corneal clouding. Risk of blindness!

## **4.3.** Indication of any immediate medical attention and special treatment needed: No information Available

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media:

Suitable Extinguishing Media- Use water, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2. Special hazards arising from the substance or mixture:

Combustible.

Forms explosive mixtures with air at ambient temperatures.

Vapours are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of: Acetic acid vapours

### **5.3.** Advice for firefighters:

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus.

Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### 5.4 Further Information:

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Remove container from danger zone and cool with water.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

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## 6.2. Environmental precautions:

Do not let product enter drains. Risk of explosion.

## 6.3. Methods and material for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material and neutralising material. e.g. (Chemizorb®). Dispose of properly.

Clean up affected area.

### 6.4. Reference to other sections:

For disposal see Sections 13.

## **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling:

#### Advice on safe handling

Observe label precautions

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection.

Wash hands and face after working with substance.

## 7.2. Conditions for safe storage, including any incompatibilities:

### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Recommended storage temperature see product label.

### 7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters:

Acetic acid IN OEL

Short Term Exposure Limit (STEL) : 15 PPM / 37 mg/m<sup>3</sup>

Time weighted average (TWA) : 10 PPM / 25 mg/m<sup>3</sup>

### 8.2. Exposure Controls:

Appropriate Engineering Controls:

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e Acetic Acid Glacial

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### **Personal Protective Equipment:**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

- Eye & Face Protectionsafety goggles

- Hand Protection -

Full contact: -

	Glove material	:	Butyl- Rubber
	Glove thickness	:	0.70 mm
	Break through tim	ne:	480 min
act: -			NY . 11 .

Flash contact: -

Glove material:Natural latexGlove thickness:0.60 mmBreak through time:30 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 898 Butoject® (full contact), KCL 706 Lapren® (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

### - Other Protective equipment-

Flame retardant antistatic protective clothing.

- Respiratory Protection-

Required when vapours/aerosols are generated.

Recommended Filter type: Filter E- (P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

- Environmental Exposure Controls-

Do not let product enter drains. Risk of explosion.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. Information on basic physical and chemical properties:

- Appearance: Colorless
- **Physical State:** Liquid
- Odor: Stinging-Vinegar like
- Odor Threshold: No information available
- **pH:** 2.5 at 50 g/l at 20 °C
- Melting Point: 17°C
- Critical Temperature: No data available
- Vapor Pressure: 1.52 kPa at 20 °C
- **Relative Vapor Density:** 2.10
- Specific Gravity / Density: 1.05 g/cm3 at 20°C
- Auto-Ignition Temperature: 427°C
- **Ignition Temperature:** 485°C
- Volatility: No data available
- Bulk Density: No data available
- Viscosity, dynamic: 1.22 mPa.s at 20 °C
- Viscosity, Kinematic: 1.17mm<sup>2</sup>/s at 20 °C
- Water/Oil Dist. Co eff.: No data available
- Partition Co-efficient: n-octanol/Water: Log Pow: -0.17 at 25 °C
- Ionicity (in Water): No data available
- Lower Explosion Limit: 4 % (V)
- Upper Explosion Limit: 19.9 % (V)
- **Boiling Point/Range:** 116 °C 118°C
- Flash Point: 39°C
- Water Solubility: 602.9 g/l at 25°C
- Molecular Weight: 60.05
- **9.2.** Other information:

Molecular Formula: CH<sub>3</sub>COOH

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity: -

Vapor/air-mixtures are explosive at intense warming.

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#### **10.2.** Chemical stability:

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3. Possibility of hazardous reactions:

Risk of explosion with: peroxi compounds, perchloric acid, fuming sulfuric acid, phosphorus halides, hydrogen peroxide, chromium(VI) oxide, potassium permanganate, Peroxides, Strong oxidizing agents Risk of ignition or formation of inflammable gases or vapours with: Metals, Iron, Zinc, magnesium, Mild steel

wind steel

Possible formation of: Hydrogen

Violent reactions possible with: strong alkalis, Aldehydes, alkali hydroxides, nonmetallic halides,

ethanolamine, Acetaldehyde, Alcohols, halogen-halogen compounds, chlorosulfonic acid,

chromosulfuric acid, Potassium hydroxide, Nitric acid

- **10.4.** Conditions to avoid: Temperature < 17°C. Heating
- 10.5. Incompatible materials: No data available
- **10.6.** Hazardous decomposition products:- In the event of fire : See section 5.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **11.1** Information on toxicological effects

#### **Acute Oral toxicity**

LD50 Rat: 3,310 mg/kg (RTECS)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach., Nausea, Vomiting, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit.

#### Acute inhalation toxicity

LCLO Rat: 39.95 mg/l; 4 h (RTECS)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract, Pneumonia, bronchitis, Inhalation may lead to the formation of oedemas in the respiratory tract., Symptoms may be delayed.

#### Acute dermal toxicity

This information is not available.

### Skin irritation

Rabbit Result: Causes burns.

### (IUCLID)

Causes severe burns.

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Eye irritation
Rabbit Result: Causes burns.
(IUCLID)
Causes serious eye damage. Risk of blindness!
Sensitisation
This information is not available.
Germ cell mutagenicity
Genotoxicity in vitro
Ames test Salmonella typhimurium
Result: negative
Method: OECD Test Guideline 471
Mutagenicity (mammal cell test): chromosome aberration.
Result: negative
Method: OECD Test Guideline 473
Carcinogenicity
This information is not available.
Reproductive toxicity
This information is not available.
Teratogenicity
Did not show teratogenic effects in animal experiments. (IUCLID)
Specific target organ toxicity - single exposure
This information is not available.
Specific target organ toxicity - repeated exposure
This information is not available.
Aspiration hazard
This information is not available.
Further Information:
Systemic effects: Shortness of breath, gastric spasms, shock, Circulatory collapse, acidosis

## **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity:

11.2

### Toxicity to fish

Semi-static test LC50 Oncorhynchus mykiss (rainbow trout): > 300.8 mg/l; 96 h OECD Test Guideline 203

## Toxicity to daphnia and other aquatic invertebrates

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Prod	Product Name Acetic Acid Glacial			
	EC5 E.sulcatum: 78 mg/l; 72 h			
	Neutral (maximum permissible toxic concentration) (Lit.)			
	EC50 Daphnia magna (Water flea): 47 mg/l; 24 h (Lit.)			
	Toxicity to algae			
	IC5 Scenedesmus quadricauda (Green algae): 4,000 mg/l; 16 h			
	(maximum permissible toxic concentration) (Lit.)			
	Toxicity to bac	eteria EC5 Pseudomonas putida: 2,850 mg/l; 16 h		
	Neutral (maxin	num permissible toxic concentration) (Lit.)		
	microtox test			
	EC50 Photoba	cterium phosphoreum: 11 mg/l; 15 min (IUCLID)		
12.2	Persistence an	nd degradability:		
	Biodegradabil	ty 99 %; 30 d		
	OECD Test G	uideline 301D (HSDB)		
	Readily biodeg	gradable 95 %; 5 d		
	OECD Test G	uideline 302B		
	Readily elimin	ated from water		
	Biochemical (	Dxygen Demand (BOD) 880 mg/g (5 d)		
	(Lit.)			
	Ratio BOD/T	1BOD BOD5 76 %		
	(IUCLID)			
12.3	Bioaccumulat	e potential:		
	Partition Coef	icient: - n-Octanol/water		
	Log Pow: -0.17 (25°C)			
	Bioaccumulati	on is not expected.		
12.4	Mobility in so	il:		
	No data availa	ble		
12.5	<b>Results of PB</b>	Γ and vPvB assessment		
Substances does not meet the criteria for PBT or vPvB according to Regulation (EC) No		es not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006,		
	Annex XIII.			
12.6	Other adverse	e effects:		
	Additional eco	ological information		
	Biological effe	Biological effects: Harmful effect due to pH shift. Caustic even in diluted form.		
	Discharge into the environment must be avoided.			
	<b>SECTION 13: Disposal considerations</b>			
13.1	Waste treatm	ent methods:		

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**Acetic Acid Glacial** 

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers

like the product itself.

## **SECTION 14: Transport information**

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)	
14.1 UN number	UN 2789			
14.2 Proper shipping name	ACETIC ACID, GLACIAL			
14.3 Class	8 (3)			
14.4 Packing group	П			
14.5 Environmentally hazardous				
14.6 Special precautions for user	Yes Tunnel Restriction code – D/E	No	Yes Ems F-E S-D	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
Not Relevant				

## **SECTION 15: Regulatory information**

## **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture: National Legislation

Storage class 3

### **15.2** Chemical safety assessment:

For this product a chemical safety assessment was not carried out.

## **SECTION 16: Other information**

## Full text of H-Statements referred to under sections 2 and 3.

- H226 Flammable liquid and vapor.
- H314 Causes severe skin burn and eye damage.

### Training advice

Provide adequate information, instruction and training for operators.

### **<u>References:</u>** Not available

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#### **Disclaimer:**

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