

# Material Safety Data Sheet



ACETIC ACID GLACIAL LR

VERSION : 04  
DATE OF ISSUE : 01-08-2023  
SUPERSEDES : 03

Product Code : 11040

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : ACETIC ACID GLACIAL LR  
Product code : 11040  
Identification of the product : Acetic acid  
CAS No : 64-19-7

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Industrial. For professional use only.

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

Company identification : MOLYCHEM  
Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade,  
Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.  
Email : [info@molychem.net](mailto:info@molychem.net)  
Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat  
Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

### 1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm).

## 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification :

R10 C; R35

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards** : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318

**Physical hazards** : Flammable liquids - Category 3 - Warning (CLP : Flam. Liq. 3) H226

### 2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s) :

C : Corrosive



R Phrase(s) :

R10 : Flammable.

R35 : Causes severe burns.

S Phrase(s) :

S1/2 : Keep locked up and out of reach of children.

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- S23 : Do not breathe the gas, fumes, vapours, spray.  
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

## Labelling Regulation EC 1272/2008 (CLP)

### Hazard pictograms



Signal words : Danger

### Hazard statements :

- H226 : Flammable liquid and vapour.  
H314 : Causes severe skin burns and eye damage.  
H332 : Harmful if inhaled.

### Precautionary statements

#### • General :

- P102: Keep out of reach of children.  
P103: Read label before use.  
P101: If medical advice is needed, have product container or label at hand.

#### • Prevention :

- P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical, ventilating, lighting, equipment.  
P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.  
P280: Wear protective gloves, protective clothing, eye protection, face protection.  
P271: Use only outdoors or in a well-ventilated area.  
P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
P233: Keep container tightly closed.  
P264: Wash thoroughly after handling.

#### • 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.  
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P363: Wash contaminated clothing before reuse.  
P370+P378: In case of fire: Use for extinction.

#### • Storage :

- P403+P235: Store in well-ventilated place. Keep cool.

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P405: Store locked up.

• **Disposal considerations :**

P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

## 3. Composition/information on ingredients

### 3.1 Substances

Synonyms : Glacial acetic acid  
Formula : C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>  
Molecular weight : 60.05 g/mol  
CAS-No. : 64-19-7  
EC-No. : 200-580-7  
Index-No. : 607-002-00-6

#### Component

CAS-No. 64-19-7  
EC-No. 200-580-7  
Index-No. 607-002-00-6

#### Classification

Flam. Liq. 3; Skin Corr. 1A; Eye Dam. 1; H226, H314, H318  
Concentration limits:  
>= 90 %: Skin Corr. 1A, H314; 25 - < 90 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319; 10 - < 25 %: Eye Irrit. 2, H319; 10 - < 25 %: Skin Irrit. 2, H315; 25 - < 90 %: Skin Corr. 1B, H314; >= 90 %: Skin Corr. 1A, H314; >= 90 %: 3, H226;

#### Concentration

<= 100 %

## 4. First aid measures

### 4.1. Description of first aid measures

#### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

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In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

### **In case of eye contact**

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

### **If swallowed**

After swallowing: 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**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## **4.3. Indication of any immediate medical attention and special treatment needed**

No data available

## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water Foam Carbon dioxide (CO2) Dry powder

#### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

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

### **5.3. Advice 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**

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **6. Accidental release measures**

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

Advice for non-emergency personnel: Do not breathe vapors, 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.

### **6.2. Environmental precautions**

Do not let product enter drains. Risk of explosion.

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

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Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material. Dispose of properly. Clean up affected area.

## 6.4. Reference to other sections

For disposal see section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### 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.

Moisture sensitive.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

### 7.3. Specific end use(s)

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

## 8. Exposure controls/personal protection

### 8.1. Exposure controls

- Personal protection** : Avoid all unnecessary exposure.  
**Respiratory protection** : Wear approved mask.  
**Hand protection** : Wear protective gloves.  
**Skin protection** : Wear suitable protective clothing.  
**Eye protection** : Chemical goggles or safety glasses.  
**Others** : When using, do not eat, drink or smoke.

### 8.2. Control parameters

Occupational Exposure Limits : No data available.

## 9. Physical and chemical properties

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

- a) Physical state liquid  
b) Color colorless  
c) Odor stinging  
d) Melting Melting point/range: 16.2 °C - lit.

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point/freezing point	
e) Initial boiling point and boiling range	117 - 118 °C - lit.
f) Flammability (solid, gas)	Not applicable
g) Upper/lower flammability or explosive limits	Upper explosion limit: 19.9 %(V) Lower explosion limit: 4 %(V)
h) Flash point	39 °C - closed cup
i) Autoignition temperature	463 °C
j) Decomposition temperature	Distillable in an undecomposed state at normal pressure.
k) pH	2.5 at 50 g/l at 20 °C
l) Viscosity	Viscosity, kinematic: 1,17 mm <sup>2</sup> /s at 20 °C Viscosity, dynamic: No data available
m) Water solubility	602.9 g/l at 25 °C at 1.013 hPa - completely soluble
n) Partition coefficient: n-octanol/water	log Pow: -0.17 at 25 °C - Bioaccumulation is not expected., (ECHA)
o) Vapor pressure	20.79 hPa at 25 °C
p) Density	1.049 g/cm <sup>3</sup> at 25 °C - lit.
Relative density	No data available
q) Relative vapor density	No data available
r) Particle characteristics	No data available
s) Explosive properties	No data available
t) Oxidizing properties	none

## 9.2. Other information

Surface tension	28.8 mN/m at 10.0 °C
Relative vapor density	2.07

## 10. Stability and reactivity

### 10.1. Reactivity

#### Reactivity

Vapor/air-mixtures are explosive at intense warming.

### 10.2. Chemical stability

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

### 10.3 Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Heating.

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## 10.5. Incompatible materials

Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, for example potassium permanganate, Amines, Alcohols, Nitric acid

## 10.6. Hazardous decomposition products

In the event of fire: see section 5

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns. pH: 2.4 (1.0 M solution)
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 2.4 (1.0 M solution)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## 12. Ecological information

### 12.1. Toxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### 12.2. Persistence - degradability

No additional information available

### 12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (Log Pow) -0.17

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

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## 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

## 16. Other information

### Abbreviations and acronyms :

PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used :** REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information :** None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008  
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### End of document

**Prepared by: MOLYCHEM (INDIA)**

### **For questions contact: MOLYCHEM**

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