



Preparing for the New Era of Laboratories

# SAFETY DATA SHEET (SDS)

According to regulation (EU) no.1907/2006

## **ACETIC ACID GLACIAL SUPRAPURE & p-test**

PRODUCT CODE : A-2031

CAS No : 64-19-7

FORMULA :  $\text{CH}_3\text{COOH}$

UN No : 2789

website : [www.labotiq.net](http://www.labotiq.net)

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## ACETIC ACID GLACIAL Suprapure & p-test



SDS Number : 0598

Date : April 15, 2026

Version : 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Name** : ACETIC ACID GLACIAL Suprapure & p-test  
**Synonyms** : Acetic acid, Methane carboxylic acid, Ethanoic acid.  
**CAS No.** : 64-19-7  
**HS Code** : 2915 21 00  
**Chemical Formula** :  $\text{CH}_3\text{COOH}$   $\text{C}_2\text{H}_4\text{O}_2$  Hill  
**Molecular Weight** : 60.05 g/mol  
**Product Code** : A-2031  
**Brand** : Labotiq  
**1.2 Manufacturer** : Labotiq  
**Address** : Jl.Terapi Raya AD2-Bumi Menteng Asri Bogor, Jawa Barat Indonesia – 16111  
**Website** : [www.labotiq.net](http://www.labotiq.net)  
**Email** : [labotiq.id@gmail.com](mailto:labotiq.id@gmail.com)  
**For information** : Phone : (+62-251) 839110, 8311662, Fax : (+62-251) 83135710  
**Emergency number** : +6281316894650  
**1.3 Application** : Laboratory chemicals, Manufacture of substances, General Chemical reagent

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226

Skin corrosion (Sub-category 1A), H314

Serious eye damage (Category 1), H318

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

#### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H226

Flammable liquid and vapor.

H314

Causes severe skin burns and eye damage.

Precautionary statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

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

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338 + P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

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do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Supplemental Hazard Statements none

### 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. Lachrymator.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : Ethanoic acid  
 Formula :  $\text{CH}_3\text{COOH}$   $\text{C}_2\text{H}_4\text{O}_2$  Hill  
 Molecular weight : 60.05 g/mol  
 CAS-No. : 64-19-7  
 EC-No. : 200-580-7  
 No. Indeks : 607-002-00-6

### 3.2 Mixture

Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component                                                                    | Classification                                                                                                                                                                                                                                                                                                                                                                                           | Concentration |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Acetic acid<br>CAS-No. 64-19-7<br>EC-No. 200-580-7<br>Index-No. 607-002-00-6 | Flam. Liq. 3; Skin Corr. 1A; Eye Dam. 1; H226, H314, H318 Concentration limits: $\geq 90\%$ : 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; $\geq 90\%$ : Skin Corr. 1A, H314; $\geq 90\%$ : 3, H226; | $\leq 100\%$  |

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**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

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Dry powder Dry sand

**Unsuitable extinguishing media**

Do NOT use water jet.

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

Carbon oxides

Combustible.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage**

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### 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. For precautions see section 2.2.

### 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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL)

| Application Area | Exposure routes | Health effect           | Value                |
|------------------|-----------------|-------------------------|----------------------|
| Workers          | Inhalation      | Acute local effects     | 25 mg/m <sup>3</sup> |
| Workers          | Inhalation      | Long-term local effects | 25 mg/m <sup>3</sup> |
| Workers          | Skin contact    | Long-term local effects | 10mg/kg BW/d         |
| Consumers        | Inhalation      | Acute local effects     | 25 mg/m <sup>3</sup> |

#### Predicted No Effect Concentration (PNEC)

| Compartment                  | Value       |
|------------------------------|-------------|
| Soil                         | 0.478 mg/kg |
| Marine water                 | 0.3058 mg/l |
| Fresh water                  | 3.058 mg/l  |
| Marine sediment              | 1.136 mg/kg |
| Fresh water sediment         | 11.36 mg/kg |
| Sewage treatment plant       | 85 mg/l     |
| Aquatic intermittent release | 30.58 mg/l  |

### 8.2 Exposure control

#### Appropriat engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Full contact

Material: butyl-rubber  
Minimum layer thickness: 0,3 mm  
Break through time: 480 min  
Material tested: Butoject®

### Splash contact

Material: Nature latex/chloroprene  
Minimum layer thickness: 0,6 mm  
Break through time: 32 min  
Material tested: Lapren®

### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                         |                                                                   |
|-----------------------------------------|-------------------------------------------------------------------|
| Appearance                              | Form: liquid<br>Colour: colourless                                |
| Odour                                   | stinging                                                          |
| Odour Threshold                         | No data available                                                 |
| pH                                      | 2,5 at 50 g/l at 20 °C                                            |
| Melting point/freezingpoint             | Melting point/range: 16,2 °C - lit.                               |
| Initial boiling point and boiling range | 117 - 118 °C - lit.                                               |
| Flash point                             | 39 °C - closed cup                                                |
| Evaporation rate                        | No data available                                                 |
| Flammability (solid, gas)               | No data available                                                 |
| Upper/lower flammability or             | Upper explosion limit: 19.9 %(V)<br>Lower explosion limit: 4 %(V) |
| explosive limits                        | No data available                                                 |

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|                                      |                                                                         |
|--------------------------------------|-------------------------------------------------------------------------|
| Vapour pressure                      | 20,79 hPa at 25 °C                                                      |
| Vapour density                       | 2,07                                                                    |
| Relative density                     | 1,049 g/cm <sup>3</sup> at 25 °C - lit..                                |
| Water solubility                     | 602,9 g/l at 25 °C at 1.013 hPa - completely soluble                    |
| Partition coefficient: octanol/water | log Pow: -0,17 at 25 °C –<br>Bioaccumulation is not expected., (ECHA)   |
| Auto-ignition temperature            | 463 °C                                                                  |
| Decomposition temperature            | Distillable in an undecomposed state at normal pressure.<br>temperature |
| Viscosity                            | Viscosity, kinematic: 1,17 mm <sup>2</sup> /s at 20 °C                  |
| Explosive properties                 | No data available                                                       |
| Oxidizing properties                 | No data available                                                       |

### 9.2 Other safety information

|                        |                      |
|------------------------|----------------------|
| Surface tension        | 28,8 mN/m at 10,0 °C |
| Relative vapor density | 2,07                 |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 3.310 mg/kg

Remarks: (RTECS)

LC50 Inhalation - Mouse - 4 h - 2.819 mg/l

Remarks: (RTECS)

Dermal: No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: Causes burns. - 4 h (OECD Test Guideline 404)

Remarks: (IUCLID)

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**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Causes burns. - 4 h

(OECD Test Guideline 405)

Remarks: (IUCLID) Causes serious eye damage.

**Respiratory or skin sensitisation**

Test Type: Ames test Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: Micronucleus test

Species: Rat Cell type: Bone marrow

Application Route: inhalation (vapor)

Method: Mutagenicity (micronucleus test)

Result: negative

**Germ cell mutagenicity**

No data available(Acetic acid)

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available(Acetic acid)

**Specific target organ toxicity - single exposure**

No data available(Acetic acid)

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available(Acetic acid)

**Additional Information**

RTECS: AF1225000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratory and digestive tracts. Symptoms include: hematemesis, bloody diarrhea, edema and/or perforation of the esophagus and pylorus, pancreatitis, hematuria, anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis, pulmonary edema, pneumonia, cardiovascular collapse, shock, and death. Direct contact or exposure to high concentrations of vapor with skin or eyes can cause: erythema, blisters, tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible

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blindness. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxicity to fish semi-static test

LC50 - Oncorhynchus mykiss (rainbow trout) - > 1.000 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - > 1.000 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae

static test EC50 - Skeletonema costatum - > 1.000 mg/l - 72 h (ISO 10253)

Toxicity to bacteria

EC5 - Pseudomonas putida - 2.850 mg/l - 16 h

Remarks: neutral (maximum permissible toxic concentration) (Lit.)

microtox test EC50 - Photobacterium phosphoreum - 11 mg/l - 15 min

Remarks: (IUCLID)

#### 12.2 Persistence and degradability

Biodegradability

Result: 99 % - Readily biodegradable. (OECD Test Guideline 301D)

Remarks: (HSDB)

Result: 95 % - Readily eliminated from water (OECD Test Guideline 302B)

Biochemical Oxygen Demand (BOD) 880 mg/g

Remarks: (Lit.)

Ratio BOD/ThBOD 76 %

Remarks: (IUCLID)

#### 12.3 Bioaccumulative potential

No data available(Acetic acid).

#### 12.4 Mobility in soil

No data available(Acetic acid)

#### 12.5 Results of PBT and vPvB assessment

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.

#### 12.6 Other adverse effects

Additional ecological information

No data available

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and

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local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 2789

IMDG: 2789

IATA: 2789

### 14.2 UN proper shipping name

ADR/RID: ACETIC ACID, GLACIAL

IMDG: ACETIC ACID, GLACIAL

IATA: ACETIC ACID, GLACIAL

### 14.3 Transport hazard class(es)

ADR/RID: 8 (3)

IMDG: 8 (3)

IATA: 8 (3)

### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

#### Further information

No data available

## SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 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.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

### National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 2

Reactivity: 0

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**Further information**

*The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Labotiq shall not be held liable for any damage resulting from handling or from contact with the above product.*

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