

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 1/11

Publication: 15/07/2022

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## ACIDUM ACETICUM GLACIALE

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

#### 1.1 Product identifier

Product name:	Acetic acid, glacial Acidum aceticum glaciale Glaciaal azijnzuur Acétique glacial (acide) Essigsäure
N° CAS:	64-19-7
N° EC:	200-580-7

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

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
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#### 1.3 Details of the supplier of the safety data sheet

Company:	FRAVER NV Keizershoek 336 2550 Kontich Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

#### 1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance/mixture

##### Classification according to (EC) n° 1272/2008

Flammable liquid (category 3)	H226
Skin corrosion (category 1A)	H314
Eye damage (category 1)	H318

#### 2.2 Label elements

##### Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Danger

Hazard statements:

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 2/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



## ACIDUM ACETICUM GLACIALE

### Precautionary statements:

P102	Keep out of reach of children
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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.
P501	Dispose of contents/container to authorized disposal company or local collection center.

Additional applicable label elements:



### 2.3 Other hazards

Not available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Product name:	Acetic acid, glacial
IUPAC name:	Acetic acid
Synonyms:	Not applicable.
N° CAS:	64-19-7
N° EC:	200-580-7
Molecular Formula:	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>
Content:	99.0% m/m to 100.5% m/m

### 3.2 Mixtures

Not applicable.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General notes:	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.
After inhalation:	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
After skin contact:	After contact with skin, wash immediately with plenty of water. Remove contaminated, saturated clothing immediately. If skin irritation occurs: Get medical advice/attention.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 3/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



## ACIDUM ACETICUM GLACIALE

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

After ingestion:

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Self-protection of the first aider:

First aider: Pay attention to self-protection! Wear personal protection equipment (refer to section 8).

### 4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: Causes serious eye damage. Causes severe burns. Inhalation of vapours or spray/mists: Irritation to respiratory tract, Headache, Nausea, Dizziness, Vomiting, Dyspnoea, Pulmonary oedema.

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

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

Not available.

### 5.2 Special hazards arising from the substance/mixture

Flammable liquid and vapour. Gases/vapours, irritant. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

### 5.3 Advice for firefighters

Surrounding fires:

Wear a self-contained breathing apparatus and chemical protective clothing.

Protection against fire:

Wear a self-contained breathing apparatus and chemical protective clothing.

Hazardous combustion products:

In case of fire may be liberated: carbon oxides (CO<sub>x</sub>).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel

Do not breathe gas/vapour/aerosol. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Immediately remove any contaminated clothing, shoes or stockings. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Remove persons to safety.

Protective equipment: Wear protective gloves/protective clothing/eye protection/face protection. See section 8.

#### For emergency responders

Personal protection equipment: Personal protection equipment: see section 8.

### 6.2 Environmental precautions

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 4/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



## ACIDUM ACETICUM GLACIALE

The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

For containment: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Handling larger quantities: Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up: Water

### 6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Precautions for safe handling:

Do not breathe gas/vapour/aerosol. Provide adequate ventilation. Always close containers tightly after the removal of product. Conditions to avoid: Aerosol or mist formation. May be corrosive to metals. Formation of: hydrogen (H<sub>2</sub>)! Avoid contact with eyes and skin. Take off immediately all contaminated clothing and wash it before reuse. Wear personal protection equipment (refer to section 8).

Personal protection:

Not available.

Technical protective measures:

Not available.

Handling:

Not available.

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

Storage:

Material, acid-resistant. Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container. Unsuitable container/equipment material: Aluminium, light metals, iron, zinc.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, well-ventilated place. Recommended storage temperature:  $\geq 16^{\circ}\text{C}$ .

Storage – away from:

Do not store together with: alkalines, Oxidizing agent. Keep/Store away from combustible materials. Keep away from food, drink and animal feedingstuffs.

### 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 5/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



## ACIDUM ACETICUM GLACIALE

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

- Occupational exposure limit values

Limit value type (country)	Substance name	1. Long-term occupational exposure limit value 2. Short-term occupational exposure limit value 3. Instantaneous value 4. Monitoring and observation processes 5. Remark
IOELV (EU)	Acetic acid CAS No.: 64-19-7	1. 10 ppm (25 mg/m <sup>3</sup> ) 2. 20 ppm (50 mg/m <sup>3</sup> )
MEL/OES (GB)	Acetic acid CAS No.: 64-19-7	1. 10 ppm (25 mg/m <sup>3</sup> ) 2. 15 ppm (37 mg/m <sup>3</sup> )

- Biological limit values  
Not available.

- DNEL-/PNEC-values

Substance name	DNEL value	1. DNEL type 2. Exposure route
Acetic acid CAS No.: 64-19-7	25 mg/m <sup>3</sup>	1. DNEL worker 2. DNEL acute inhalative (local)
Acetic acid CAS No.: 64-19-7	25 mg/m <sup>3</sup>	1. DNEL consumer 2. DNEL acute inhalative (local)

Substance name	PNEC value	1. PNEC type
Acetic acid CAS No.: 64-19-7	3.058 mg/L	1. PNEC aquatic, freshwater
Acetic acid CAS No.: 64-19-7	0.3058 mg/L	1. PNEC aquatic, marine water
Acetic acid CAS No.: 64-19-7	30.58 mg/L	1. PNEC aquatic, intermittent release
Acetic acid CAS No.: 64-19-7	11.38 ml/kg	1. PNEC sediment, freshwater
Acetic acid CAS No.: 64-19-7	1.138 ml/kg	1. PNEC sediment, marine water
Acetic acid CAS No.: 64-19-7	85 mg/L	1. PNEC sewage treatment plant (STP)

#### 8.2 Exposure controls

##### Appropriate engineering control

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations.

##### Individual protection measures

Eye/face protection: Eye glasses with side protection (EN 166).

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 6/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00

## ACIDUM ACETICUM GLACIALE



Skin protection:	Tested protective gloves must be worn (EN ISO 374). Suitable material: IIR (Butyl rubber) Thickness of the glove material: 0,5 mm Breakthrough time (maximum wearing time): ≤ 60 min The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. In the case of wanting to use the gloves again, clean them before taking off and air them well.
Hand protection:	Not determined.
Respiratory protection:	Usually no personal respiratory protection necessary. Provide adequate ventilation. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Combination filtering device (EN 14387), Filter type: ABEK.
Thermal hazards:	Not determined.
<b>Environmental exposure control</b>	
Not available.	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	Crystalline mass or clean, colourless, volatile liquid
Odour:	stinging like Acetic acid
Odour threshold:	4 mg/m <sup>3</sup>
pH:	1.3 – 1.8
Melting/freezing point:	Melting point: 15 – 16 °C, freezing point: not determined.
Initial boiling point:	118.1 °C
Boiling range:	118.1 °C
Flash point:	39 °C
Evaporation rate:	Not determined.
Flammability (solid/gas):	Not determined.
Upper/lower flammability or explosive limits:	4 – 17 Vol-%
Vapour pressure:	16 hPa
Vapour density:	2.07
Relative density:	1.05 g/mL
Solubility:	Miscible with water, with ethanol (96%) and with methylene chloride.
Solubility in water:	completely miscible
Partition coefficient (n-octanol/water):	-0.17
Auto-ignition temperature:	485 °C

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 7/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



## ACIDUM ACETICUM GLACIALE

Decomposition temperature:	Not determined.
Viscosity:	Not determined.
Explosive properties:	Not determined.
Oxidising properties:	Not determined.

### 9.2 Other information

Molecular weight: 60,05 g/mol

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Corrosive and flammable. Moisture-sensitive. Reaction with: Alkali (lye); Oxidising agent, strong.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Vapours can form explosive mixtures with air. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. Exothermic reaction with: Alkali (lye), concentrated; Oxidising agent, strong (Formation of: Gases/vapours, flammable). Reaction with: metals (including their alloys). Caution! Formation of: hydrogen (H<sub>2</sub>). Hazardous polymerisation: with Acetaldehyde.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Alkali (lye); Metal, base; Oxidizing agent

### 10.6 Hazardous decomposition products

No known hazardous decomposition products. In case of fire may be liberated: carbon oxides (CO<sub>x</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity:	Not available.
Skin corrosion/irritation:	Method OECD 404, Rabbit: Causes severe burns.
Serious eye damage/irritation:	Method OECD 405, Rabbit: Causes serious eye damage.
Respiratory/skin sensitisation:	Not available.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive toxicity:	Not available.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Inhalation of vapours or spray/mists: May cause respiratory irritation.

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 8/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



## ACIDUM ACETICUM GLACIALE

STOT-repeated exposure: Not available.

Aspiration Hazard: Not available.

Other: Not available.

### 11.2 Additional information on potential adverse human health effects and symptoms

Eye contact: Not available.

Skin contact: Not available.

Inhalation: Not available.

Ingestion: Not available.

Aspiration: Not available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Biodegradation: Method OECD 301B: Readily biodegradable (according to OECD criteria).

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: -0.17

Accumulation / Evaluation: No indication of bioaccumulation potential.

### 12.4 Mobility in soil

Not available.

### 12.5 Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64-19-7	Acetic acid	/

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 Other adverse effects

Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste treatment options

Appropriate disposal / Product: Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package: Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.

Other disposal recommendations: Collect in closed and suitable containers for disposal. Waste for disposal is to be classified and labelled. Protect from sunlight. Store in a well-ventilated place. Vapours can form explosive mixtures with air. Do not allow to enter into surface water or drains.



# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 9/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



## ACIDUM ACETICUM GLACIALE

### SECTION 14: TRANSPORT INFORMATION

#### Transport information according to ADR/RID/IMDG/ICAO/IATA

##### 14.1 UN Number

ADR/ RID(Land),IMDG(Sea), 2789  
IATA/ICAO (Air) :

##### 14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea), ACETIC ACID, GLACIAL  
IATA/ICAO (Air) :

##### 14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) :



##### 14.4 Packing group

ADR/ RID(Land),IMDG(Sea), II  
IATA/ICAO (Air) :

##### 14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea), Not classified.  
IATA/ICAO (Air) :

##### 14.6 Special precautions for user

Not available.

##### 14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

##### 14.8 Additional transport information

Not available.

### SECTION 15: REGULATORY INFORMATION

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

Hazard symbol: Not applicable.

Risk phrases: Not applicable.

Safety phrases: Not applicable.

#### 15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

### SECTION 16: OTHER INFORMATION

#### 16.1 Changes since the previous version

Not applicable.

#### 16.2 Abbreviations and acronyms used

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 10/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



## ACIDUM ACETICUM GLACIALE

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

### 16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

### 16.4 Method of classification in case of mixture

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	Test data
Flammable liquids (Flam. Liq. 3)	H226: Flammable liquid and vapour.	Test data
Skin corrosion/irritation (Skin Corr. 1A)	H314 : Causes severe skin burns and eye damage.	Test data

### 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

### 16.6 Training advisement

Not available

### 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered to be dependable and is accurate to the best of the [FSA] [FRAVER] NV's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. [FSA] [FRAVER] NV cannot assume responsibility for adverse events which

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

## ACIDUM ACETICUM GLACIALE

EN

FORM-06-14-01 (V00)

Page 11/11

Publication: 15/07/2022

Revision: 15/07/2022

Version: 00



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### 16.8 Department issuing MSDS

Quality Department

FRAVER NV

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