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Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.11.2024

Version number 3.00 (replaces version 2.00)

Revision: 27.11.2024

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

- · Product identifier
- · Trade name: (+)-tartaric acid
- · Article number: 2046
- CAS Number: 87-69-4
- EC number:
- 201-766-0
- **Registration number** The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn
- Tel: +49 (0) 228-192400

2 Hazards identification

 \cdot Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
 Evo Dam 1 H218 Causes serious ave damage

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger

· Hazard statements

H318 Causes serious eye damage.



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Trade name: (+)-tartaric acid

Precautionary statements

P280 Wear 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. Immediately call a POISON CENTER/doctor.

P310

- · Other hazards
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

· Determination of endocrine-disrupting properties Not applicable.

3 Composition/information on ingredients

- Substances
- · CAS No. Description
- CAS: 87-69-4 (+)-tartaric acid
- Identification number(s)
- · EC number: 201-766-0

4 First aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eve contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Call a doctor immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

· Extinguishing media

- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture
- Carbon monoxide (CO)
- Carbon dioxide (CO2)
- Advice for firefighters
- · Protective equipment: Wear fully protective suit.
- · Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation



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 Use personal protective equipment. Avoid breathing vapors, mist or gas. Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow product to reach sewage system or any water course. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Pick up mechanically. Dispose contaminated material as waste according to section 13. Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information. 	(Contd. of page 2)
7 Handling and storage	
 Precautions for safe handling Prevent formation of dust. Ensure good ventilation/exhaustion at the workplace. Information about fire - and explosion protection: No special measures required. 	
 Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Information about storage in one common storage facility: Not required. Further information about storage conditions: No further information Storage class: TRHS 510: 11 Combustible solids Specific end use(s) No further relevant information available. 	
8 Exposure controls/personal protection	
• Control parameters • Ingredients with limit values that require monitoring at the workplace: Not required.	
 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: Dust protection mask. Hand protection Protective gloves Material of gloves 	

preparation/ the chemical mixture. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



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PVC or PE gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye/face protection Tightly sealed goggles
- Body protection:

Choose a type of body protection according to the amount and concentration of hazardous substances to the workplace.

9 Physical and chemical properties

 Information on basic physical and chemical prop General Information 	perties
	Solid
· Physical state · Colour:	White
· Odour:	Odourless
• Odour threshold:	Not determined.
• Melting point/freezing point:	166–169 °C
· Boiling point or initial boiling point and boiling	179.1 °C
range Flamme hillte	
· Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
· Flash point:	Not applicable.
Decomposition temperature:	Not determined.
· pH	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
· water at 20 °C:	1390 g/l
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not applicable.
Density and/or relative density	
[·] Density at 20 °C:	1.76 g/cm³
Relative density	Not determined.
[.] Vapour density	Not applicable.
 Particle characteristics 	Not determined
· Other information	
· Appearance:	
· Form:	Crystalline powder
· Important information on protection of health	
and environment, and on safety.	
• Explosive properties:	Product does not present an explosion hazard.
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	(conta: on page o)



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Change in condition		
· Evaporation rate	Not applicable.	
· Information with regard to physical hazard		
classes		
· Explosives	Void	
Explosites	Void	
· Flammable gases	Void	
	Void	
· Aerosols	Void	
	Void	
· Oxidising gases	Void	
Oxidiality gases	Void	
· Gases under pressure	Void	
Cases under pressure	Void	
· Flammable liquids	Void	
	Void	
· Flammable solids	Void	
Fiammable Solius	Void	
· Self-reactive substances and mixtures	Void	
Sell-leactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
r yrophone ngulus	Void	
. Durophorio colido	Void	
· Pyrophoric solids	Void	
. Calf besting substances and mixtures	Void	
· Self-heating substances and mixtures	Void	
Substances and mixtures, which smit flowmable		
Substances and mixtures, which emit flammabl		
gases in contact with water	Void	
Ovidiaina liquida	Void	
· Oxidising liquids	Void	
Ovidiaina aalida	Void	
· Oxidising solids	Void	
	Void	
· Organic peroxides	Void	
	Void	
· Corrosive to metals	Void	
- <i>M</i> · · · ·	Void	
· Desensitised explosives	Void	
	Void	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with metals.



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Trade name: (+)-tartaric acid

Reacts with strong oxidising agents.

- · Conditions to avoid No further relevant information available.
- Incompatible materials: Metals
- Metals
- Strong oxidizing agents Hazardous decomposition products: Carbon monoxide

11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:
- Oral LD50 7,500 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation

May cause skin irritation.

Based on available data, the classification criteria are not met.

- · Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

· Information on other hazards

• Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

- · Toxicity
- Aquatic toxicity:

LC50 100 mg/L (fish: carrasius auratus)

EC50 >93.3 mg/L (Daphnia magna)

1,000 mg/L (Microorganism)

- · Persistence and degradability Easily biodegradable
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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· Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects
- · Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

13 Disposal considerations

· Waste treatment methods

 Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to local regulations.

14 Transport information

UN number or ID number ADR, IMDG, IATA	Not subject to transport regulations. not regulated
UN proper shipping name	-
ADR	not regulated
IMDG, IATA	not regulated
Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
Packing group	-
ADR, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Maritime transport in bulk according to IMO	
instruments	Not applicable.
UN "Model Regulation":	not regulated

15 Regulatory information

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

- Named dangerous substances ANNEX I Substance is not listed.
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- REGULATION (EC) No 1907/2006 ANNEX XVII Not listed

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(Contd. of page 7) • DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

· National regulations:

• Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 11 Combustible solids

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- Reasons for alterations This version replaces all old versions.
- · Date of previous version: 27.11.2024
- · Version number of previous version: 2.00
- Abbreviations and acronyms:

 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Eye Dam. 1: Serious eye damage/eye irritation Category 1

 * Data compared to the previous version altered.