

**Safety data sheet**  
according to 1907/2006/EC, Article 31


Printing date 06.12.2012

Revision: 14.02.2011

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

- **1.1 Product identifier**
- **Trade name (+)-tartaric acid**
- **CAS Number:**  
87-69-4
- **EC number:**  
201-766-0
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation** Food additives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Stockmeier Chemie GmbH & Co.KG  
Eckendorfer Str. 10  
D-33609 Bielefeld  
Phone: + 49(0)521/3037-0  
Fax: + 49 (0)521/3037-159
- **Informing department:**  
Product safety department. Tel.: 0049 / 521 / 3037-182 or 3037-145  
E-mail: ehs-bielefeld@stockmeier.de
- **1.4 Emergency telephone number:**  
Poison Control Center, Mainz  
Tel. 00 49 / 61 31 / 19 240

**\* SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H335 May cause respiratory irritation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Xi; Irritant  
R36/37/38: Irritating to eyes, respiratory system and skin.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
- 
- GHS07
- **Signal word** Warning
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.
- **Precautionary statements**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P332+P313 *If skin irritation occurs: Get medical advice/attention.*

P337+P313 *If eye irritation persists: Get medical advice/attention.*

P405 *Store locked up.*

#### - 2.3 Other hazards

#### - Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### - 3.1 Substances

##### - CAS No. Designation:

87-69-4 (+)-tartaric acid

##### - Identification no(s):

- **EC number:** 201-766-0

### SECTION 4: First aid measures

#### - 4.1 Description of first aid measures

- **General advice:** Instantly remove any clothing soiled by the product.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

##### - After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- **After eye contact** Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- **After swallowing** Drink copious amounts of water and provide fresh air. Instantly call for doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### - 5.1 Extinguishing media

##### - Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

##### - 5.3 Advice for firefighters

##### - Protective equipment:

Adjust protective clothing to surrounding fire.

Wear full protective suit with self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

Wear protective equipment and keep unprotected persons away.

##### - 6.2 Environmental precautions:

Damp down dust with water spray jet.

Do not allow to enter drainage system, surface or ground water.

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If large amounts are released, the authorities must be informed.

**- 6.3 Methods and material for containment and cleaning up:**

Pick up mechanically and rinse the remainder with water. Avoid dust development. Place in suitable container and send to be recycled or disposed (taking item 13 into account).

**- 6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

### SECTION 7: Handling and storage

**- 7.1 Precautions for safe handling** Prevent formation of dust.

**- 7.2 Conditions for safe storage, including any incompatibilities**

**- Storage**

**- Requirements to be met by storerooms and containers:**

Keep container tightly closed and dry

Do not use light alloy containers.

**- 7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**- Additional information about design of technical systems:** In case of dust development, suction is needed.

**- 8.1 Control parameters**

**- Components with critical values that require monitoring at the workplace:** Not required.

**- Additional information:** The lists that were valid during the compilation were used as basis.

**- 8.2 Exposure controls**

**- Personal protective equipment**

**- General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not inhale dust. Prevent formation of dust.

**- Breathing equipment:**

Use breathing protection with high concentrations.

Breathing protection to be used where a build-up of dust occurs.

**- Recommended filter device for short term use:** Filter P2

**- Protection of hands:** Protective gloves.

**- Eye protection:** Safety glasses

**- Body protection:** Protective work clothing.

### \* SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties**

**- General Information**

**- Appearance:**

**Form:** Solid.

**Colour:** White

**- Smell:** Odourless

**- Change in condition**

**Melting point/Melting range:** 166-170°C

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<b>Boiling point/Boiling range:</b>	Not determined
<b>- Flash point:</b>	Product is non-flammable nor potentially explosive
<b>- Danger of explosion:</b>	Product is not approx. potentially explosive. Organic solids: dust can form an explosive mixture with air.
<b>- Density at 20°C</b>	ca. 1.76 g/cm <sup>3</sup>
<b>- Solubility in / Miscibility with Water at 20°C:</b>	1390 g/l
<b>- 9.2 Other information</b>	No further relevant information available.

\* **SECTION 10: Stability and reactivity**

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Strong bases  
oxidants  
various metals (e.g., iron).
- **10.6 Hazardous decomposition products:** Formation of carbon monoxide and carbon dioxide in case of fire.

\* **SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
  - **Acute toxicity:**
- |   |      |                    |
|---|------|--------------------|
| <b>- LD/LC50 values that are relevant for classification:</b> |      |                    |
| Oral  | LD50 | > 5000 mg/kg (rat) |
- **Primary irritant effect:**
  - **on the skin:** Irritant for skin and mucous membranes.
  - **on the eye:** Irritant effect.
  - **Sensitization:** No sensitizing effect known.

\* **SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:**  
The product is readily biodegradable.  
CSB: 425 mg O<sub>2</sub>/g  
BSB5: 350 mg O<sub>2</sub>/g
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow to enter drainage system, surface or ground water

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Water hazard class 1 (Self-assessment): slightly hazardous for water.

**- 12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**- 13.1 Waste treatment methods**

**- Recommendation**

Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.

**- Waste disposal key number:**

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

**- Uncleaned packagings:**

**- Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

**- Recommended cleaning agent:** Water, if necessary with cleaning agent.

### \* SECTION 14: Transport information

**- 14.1 UN-Number**

- **ADR, IMDG, IATA**

Void

**- 14.2 UN proper shipping name**

- **ADR, IMDG, IATA**

Void

**- 14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**

- **Class**

Void

**- 14.4 Packing group**

- **ADR, IMDG, IATA**

Void

**- 14.6 Special precautions for user**

Not applicable.

**- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**- Transport/Additional information:**

Not dangerous according to the above specifications.

**- UN "Model Regulation":**

-

### SECTION 15: Regulatory information

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

**- National regulations**

**- Water hazard class:**

Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.

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

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**\* SECTION 16: Other information**

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing data specification sheet:** see item 1: Informing departement

- **Contact:**

Dr. R. Dammann

G. März

- **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organization*

*ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals*

*CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

- \* **Data compared to the previous version altered.**

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