

Trade name: Acid tartaricum

Substance number: 060456

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

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

1.1. Product identifier

Acid tartaricum

Item No. 06045600

Substance / product identification

INCI TARTARIC ACID

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

Use of the substance/preparation

food additive, Manufacture of pharmaceutical products, Manufacture of cosmetics, industry, Cleaning agent

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

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

Trade name: Acid tartaricum

Substance number: 060456

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

P310 lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)
contains 2,3-Dihydroxybutanedioic acid

SECTION 3: Composition/information on ingredients

Molecular weight

Value	150.09	g/mol
-------	--------	-------

Hazardous ingredients

2,3-Dihydroxybutanedioic acid

CAS No. 87-69-4

EINECS no. 201-766-0

Registration no. 01-2119537204-47-XXXX

Concentration \geq 50 %

Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Adhere to personal protective measures when giving first aid. Remove contaminated clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately.

After ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If individual is drowsy or unconscious place in recovery position (on left side, with head down). If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Foam, Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby evolution of dangerous gases possible. Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Wear full

Trade name: Acid tartaricum

Substance number: 060456

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Send in suitable containers for recovery or disposal. Clean up affected area. Avoid raising dust.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation.

Advice on protection against fire and explosion

The product is combustible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide acid-resistant floor.

Hints on storage assembly

Do not store together with foodstuffs. Do not store together with: Metals

Further information on storage conditions

Protect from heat and direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from atmospheric moisture and water.

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

General protective and hygiene measures

Keep away from sources of ignition. Observe the usual precautions for handling chemicals. Wash hands and face before breaks and after work. Avoid contact with eyes. Remove contaminated, soaked clothing immediately and dispose of safely. Do not breathe dust.

Respiratory protection

Dust mask; Particle filter P2

Hand protection

Protective gloves
Appropriate Material nitrile rubber - NBR
Material thickness > 0.35 mm

Eye protection

Tightly fitting safety glasses

Trade name: Acid tartaricum

Substance number: 060456

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

Body protection

Acid-resistant protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Form** crystalline**Colour** white**Odour** odourless**pH value**

Value 2.2

Remarks 0.1N solution

Melting point

Value 168 to 170 °C

Initial boiling point and boiling range

Value 179.1 °C

Flash point

Value > 100 °C

Method closed cup

Flammability (solid, gas)

Not self inflammable

DensityValue 1.76 g/cm³**Solubility in water**

Value 1.39 g/l

Temperature 20 °C

Partition coefficient: n-octanol/water

log Pow - 1.91

Auto-ignition temperature

Value 375 °C

Viscosity**dynamic**

Remarks Not applicable

9.2. Other information**Other information**

The product is not combustible. The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactions with various metals.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Keep away from sources of heat and ignition. Avoid dust formation.

Trade name: Acid tartaricum

Substance number: 060456

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

10.5. Incompatible materials

Reacts violently with: Metals, Silvercompounds, Fluorine

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****2,3-Dihydroxybutanedioic acid**

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 423		

Acute dermal toxicity (Components)**2,3-Dihydroxybutanedioic acid**

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		

Skin corrosion/irritation (Components)**2,3-Dihydroxybutanedioic acid**

Species	rabbit		
evaluation	non-irritant		
Method	OECD 404		

Serious eye damage/irritation (Components)**2,3-Dihydroxybutanedioic acid**

evaluation	irritant - risk of serious damage to eyes		
Method	OECD 437		

Sensitization (Components)**2,3-Dihydroxybutanedioic acid**

evaluation	non-sensitizing		
Method	OECD 429		

Subacute, subchronic, chronic toxicity (Components)**2,3-Dihydroxybutanedioic acid**

Chronic toxicity			
Species	rat		
NOAEL		2460	mg/kg

Mutagenicity (Components)**2,3-Dihydroxybutanedioic acid**

evaluation	No experimental information on genotoxicity in vitro available.		
Method	OECD 473		

Reproduction toxicity (Components)**2,3-Dihydroxybutanedioic acid**

evaluation	No negative effects		
Method	OECD 414		

Carcinogenicity (Components)**2,3-Dihydroxybutanedioic acid**

evaluation	No negative effects		
Method	OECD 453		

Trade name: Acid tartaricum

Substance number: 060456

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

2,3-Dihydroxybutanedioic acid

Species	zebra fish (Brachydanio rerio)		
LC50	> 100		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)

2,3-Dihydroxybutanedioic acid

Species	Daphnia magna		
EC50	93.3		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Algae toxicity (Components)

2,3-Dihydroxybutanedioic acid

Species	Selenastrum capricornutum		
EC50	51.4		mg/l
Duration of exposure	72	h	
Method	OECD 201		

12.2. Persistence and degradability

Biodegradability (Components)

2,3-Dihydroxybutanedioic acid

Value	> 80		%
evaluation	Readily biodegradable		

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow	-	1.91
---------	---	------

12.6. Other adverse effects

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code	No not dispose with rubbish.
Disposal in compliance with local and national regulations.	
EWC waste code	Should not be released into the sanitary sewer system.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

Trade name: Acid tartaricum

Substance number: 060456

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	Non-dangerous goods	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany)	WGK 1
Remarks	Self-assessment

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H318	Causes serious eye damage.
------	----------------------------

CLP categories listed in Chapter 3

Eye Dam. 1	Serious eye damage, Category 1
------------	--------------------------------

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.