

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product Identifier:**

**Product Name:** Tartaric Acid  
**Identification of the product:** CAS: 87-69-4  
EC: 201-766-0  
**Reach Registration Number:** 01-2119537204-47-XXXX

**Relevant identified uses of the substance or mixture and uses advised against:**

**Identified use(s):** Used as an acidulant of beverages and other food. L(+)-Tartaric acid can be used for gypsum production.  
**Uses advised against:** Not available.

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## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

**Classification of the substance:**

**The substance is classified as following according to Regulation (EC) No. 1272/2008:**

Hazard classes/Hazard categories    Hazard statement

Eye Dam. 1                                H318

For full text of H-phrases: See section 2.2.

**Label elements:**

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

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# SAFETY DATA SHEET

Tartaric Acid

Issued: 13/03/2024

Page 2

**Supplemental Hazard information (EU):** Not applicable.

**Other hazards:** This substance is not PBT/vPvB.  
The substance is not identified as having endocrine disrupting properties.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:**

**Ingredient(s):**

Chemical name	Registration No.	CAS No.	EC No.	Concentration	Specific concentration limits, M-factors, acute toxicity estimates (ATE)
(+)-Tartaric acid	01-2119537204-47-XXXX	87-69-4	201-766-0	100%	N/A

## 4. FIRST AID MEASURES

**Description of first aid measures:** In all cases of doubt, or when symptoms persist, seek medical attention.

**In case of inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.

**In case of skin contact:** Wash exposed area with soap and water. Get medical advice for irritation develops.

**In case of eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation persists.

**In case of ingestion:** If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice.

**Main symptoms and effects, both acute and delayed:** Causes serious eye damage.

**Indication of any immediate medical attention and special treatment needed:** If skin irritation or rash occurs, get medical advice/attention.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:**

**Suitable extinguishing media:** Water spray, dry chemical, foam.

**Unsuitable extinguishing media:** Not available.

**Special hazards arising from the substance or mixture:** Development of hazardous combustion gases or vapours in the event of fire due to product packages.

**Advice for fire-fighters:** Wear self-contained breathing apparatus (positive pressure, if available) and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:** Remove ignition sources. Provide adequate ventilation. Avoid inhalation dust. Avoid skin and eye contact. For personal protection see Section 8.

**For emergency personnel:** Wear an appropriate NIOSH/MSHA approved respirator if vapour is generated.

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# SAFETY DATA SHEET

Tartaric Acid

Issued: 13/03/2024

Page 3

**Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits.

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

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

**References to other sections:** See section 8 for information on personal protection equipment.  
See section 13 for information on disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling and storage:**

**Protective measures:** Use personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust. Provide appropriate exhaust ventilation at places where dust is formed. Wash hands thoroughly after handling.

**Advice on general occupational hygiene:** Do not eat, drink or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including possible incompatibilities:**

Store in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition.

**Specific end uses:** Not applicable.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:**

**Occupational exposure limits:**

Country	Substance	EINECS no.	CAS no.	Occupational Exposure Limit Value (8-hr reference period)		Occupational Exposure Limit Value (15-min reference period)		Note
				ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Germany (AGS)	(+)-Tartaric acid	201-766-0	87-69-4	-	2 inhalable fraction	-	2 inhalable fraction	-
Germany (DFG)	(+)-Tartaric acid	201-776-0	87-69-4	-	2 inhalable fraction	-	2 inhalable fraction	-

**Additional exposure limits under the conditions of use:** Not available.

**DNEL/DMEL and PNEC-Values:**

<b>Workers – Hazard via inhalation route</b>	Systemic effects-Long term exposure	DNEL = 5.2 mg/m <sup>3</sup>
<b>Workers – Hazard via dermal route</b>	Systemic effects-Long term exposure	DNEL = 2.9 mg/kg bw/day
<b>General Population – Hazard via inhalation route</b>	Systemic effects-Long term exposure	DNEL = 1.3 mg/m <sup>3</sup>
<b>General Population – Hazard via dermal route</b>	Systemic effects-Long term exposure	DNEL = 1.5 mg/kg bw/day
<b>General Population – Hazard via oral route</b>	Systemic effects-Long term exposure	DNEL = 8.1 mg/kg bw/day
<b>PNEC aqua</b>	Freshwater	0.312 mg/L
<b>PNEC aqua</b>	Marine water	0.312 mg/L
<b>PNEC</b>	STP	10 mg/L
<b>PNEC sediment</b>	Freshwater	1.141 mg/kg sediment dw
<b>PNEC sediment</b>	Marine water	1.141 mg/kg sediment dw
<b>PNEC</b>	Soil	0.045 mg/kg soil dw

(DNEL: Derived No Effect Level)

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# SAFETY DATA SHEET

Tartaric Acid

Issued: 13/03/2024

Page 4

## Exposure controls:

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

## Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Wear appropriate protective eyeglasses.

## Skin protection:

**Hand protection:** Wear appropriate protective gloves.

**Body protection:** Wear appropriate protective clothing to prevent skin exposure.

**Respiratory protection:** In case of dust. Wear suitable respiratory equipment.

**Thermal hazards:** Wear suitable protective clothing to prevent heat.

**Environmental exposure control:** Avoid discharge into the environment. According to local regulations, Federal and official regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>Appearance:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/range (°C):</b>	169°C
<b>Boiling point/range (°C):</b>	179.1 °C
<b>Flash point (°C):</b>	>100°C
<b>Evaporation rate:</b>	Not available
<b>Flammability limit – lower (%):</b>	Not available
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Ignition temperature (°C):</b>	Not available
<b>Upper/lower explosive limits:</b>	Not available
<b>Vapour pressure (20°C):</b>	<5 Pa
<b>Vapour density:</b>	Not available
<b>Relative density:</b>	1.76
<b>Bulk density (kg/m<sup>3</sup>):</b>	Not available
<b>Water solubility (g/l):</b>	1.390 g/L
<b>n-Octanol/Water (log Po/w):</b>	log Pow= -1.91
<b>Auto-ignition temperature:</b>	375°C
<b>Decomposition temperature:</b>	Not available
<b>Viscosity, dynamic (mPa.s):</b>	Not available
<b>Explosive properties:</b>	Non-explosive
<b>Oxidising properties:</b>	No oxidising properties
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	150.09

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# SAFETY DATA SHEET

Tartaric Acid

Issued: 13/03/2024

Page 5

## Other information:

**Fat solubility (solvent-oil to be specified):** Not available

**Surface tension:** Not available

**Dissociation constant in water (pKa):** 2.98

**Oxidation-reduction Potential:** Not available

## 10. STABILITY AND REACTIVITY

**Reactivity:** The substance is stable under normal storage and handling conditions.

**Chemical stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Possible hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** Incompatible materials. Dust, excessive heat.

**Incompatible materials:** Not available.

**Hazardous decomposition products:** When ignited it gradually decomposes emitting an odour resembling that of burning sugar.

## 11. TOXICOLOGICAL INFORMATION

### Information on hazard classes as defined in Regulation (EC) No 1272/2008:

#### Acute toxicity:

**LD50 (oral, rat):** > = 2000 - < = 5000 mg/kg bw

**LD50 (dermal, rat)** > 2000 mg/kg bw

**LD50 (inhalation, rat):** Not available.

**Skin corrosion/irritation:** Not classified.

**Serious eye damage/irritation:** Not classified.

**Respiratory or skin sensitisation:** Cause serious eye damage.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Not classified.

**STOT-single exposure:** Not classified.

**STOT-repeated exposure:** Not classified.

**Aspiration hazard:** Not classified.

#### Information on other hazards:

**Endocrine disrupting properties:** The substance is not identified as having endocrine disrupting properties.

**Other information:** Not applicable.

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# SAFETY DATA SHEET

Tartaric Acid

Issued: 13/03/2024

Page 6

## 12. ECOLOGICAL INFORMATION

### Toxicity:

#### Acute (short-term) toxicity:

LC50 (96h, fish): >100 mg/l  
EC50 (48h, crustacea): 93.313 mg/l  
EC50 (72h, Algae/aquatic p[plants]): >=100mg/l

#### Chronic (long-term) toxicity:

NOEC (fish): Not available.  
NOEC (crustacea): Not available.  
EC50 (algae/aquatic plants): Not available.

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Results of PBT and vPvB assessment: The substance is not PBT/vPvB.

Endocrine disrupting properties: The substance is not identified as having endocrine disrupting properties.

Other adverse effects: Not available.

Additional information: Not available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:** Dispose of in accordance with all applicable local and national regulation. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

## 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard class(es)	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Maritime transport in bulk according to IMO instruments.	Not regulated	Not regulated	Not regulated	Not regulated

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# SAFETY DATA SHEET

Tartaric Acid

Issued: 13/03/2024

Page 7

## 15. REGULATORY INFORMATION

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

**Relevant information regarding authorisation:** Not applicable.

**Relevant information regarding restriction:** Not applicable.

**Other EU regulations:** Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

**Other National regulations:** Not applicable.

**Chemical safety assessment:** An assessment of the chemical safety has not been carried out.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

**Relevant H-statements (number and full text):** H318: Causes serious eye damage.

**Legal disclaimer:** The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.