

**Safety Data Sheet** 

according to Regulation (EU) 2015/830

Date of issue: 02/10/2017 Revision date: 07/12/2017 Supersedes: 07/12/2017 Version: 1 1

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

**Product identifier** 1.1.

: Substance **Product form** Trade name : TARTARIC ACID Chemical name : L(+) tartaric acid EC-No. : 201-766-0 CAS-No. : 87-69-4

**REACH registration No** : 01-2119537204-47

Type of product : Acids **Formula** : C4H6O6 : Trade product **Product group** 

Other means of identification : E334

#### Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

: Professional use Main use category

Industrial/Professional use spec : For professional users only Use of the substance/mixture : Acidification of musts and wines.

1.2.2. Uses advised against

Restrictions on use : Food/feedstuff additives

#### Details of the supplier of the safety data sheet 1.3.

Manufacturer

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**Safety Data Sheet** 

according to Regulation (EU) 2015/830

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## 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre	The Children's Hospital at Westmead Locked Bag 4001 NSW 2145 Westmead	13 11 26 +56 2 2 247 3600	
Canada	Ontario Poison Centre (OPC)	The Hospital for Sick Children 555 University Avenue ON M5G 1X8 Toronto	1-800-268-9017 (416) 813-5900	
Canada	BC Drug and Poison Information Centre (DPIC)	655 West 12th Avenue BC V5Z 4R4 Vancouver	1-800-567-8911 (604) 682-5050	
China	National Poison Control Center	Chinese Center for Disease Control and Prevention Nanwei road, No.29 100050 Beijing	+86 10 831 32 046	
Croatia	Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada	Ksaverska Cesta 2 p.p. 291 10000 Zagreb	+385 1 234 8342	
Czech Republic	Toxikologické informační středisko Klinika pracovního lékařství VFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	
Georgia	National Toxicology Information Advisory Center	Tbilisi State Medical University Department of Toxicology - 7 Asatiani St. 380 077 Tbilisi	+995 99 533320	
Greece	Poisons Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 2 10 779 3777	
Hungary	Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat	Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest	+36 80 20 11 99	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Japan	Japan Poison Information Center	Tsukuba Medical Center 1-1-1 Amakubo 305-0005 Tsukuba City, Ibaraki	+81-29-856-3566 +81-72-727-2499	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
New Zealand	National Poisons Centre	Dunedin School of Medicine, University of Otago PO Box 913 9054 Dunedin	0800 764 766 +56 2 2 247 3600	
Poland	National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)	ul. Teresy 8 P.O. BOX 199 90950 Łódź	+48 42 63 14 724	

**Safety Data Sheet** 

according to Regulation (EU) 2015/830

Country	Organisation/Company	Address	Emergency number	Comment
Romania	Department of Clinical Toxicology Spitalul de Urgenta Floreasca	Calea Floreasca Bucuresti	+40 21 230 8000	
Russia	Информационно- консультативный центр по токсикология (RTIAC) Министерство здравоохранения Российской Федерации	3 Сухаревская Площадь Блок 7 129090 г. Москва	+7 495 628 1687 (только на русском)	
Slovenia	Center za klinično toksikologijo in farmakologijo Interna klinika, UKCL	Zaloška cesta 7 1525 Ljubljana	+386 41 650 500	
South Africa	Tygerberg Poison Information Centre	Division of Clinical Pharmacology Faculty of Medicine and Heath Sciences Stellenbosch University - PO Box 241 8 000 Cape Town	0861 555 777 +56 2 2 247 3600	
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzısıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 6590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
United States of America	American Association of Poison Control Centers	515 King St., Suite 510 VA 22314 Alexandria	1-800-222-1222 +56 2 2 247 3600	

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, H318

Category 1

Full text of hazard classes and H-statements: see section 16

Adverse physicochemical, human health and environmental effects Causes serious eye irritation.

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display

Hazard pictograms (CLP)



### Safety Data Sheet

according to Regulation (EU) 2015/830

Signal word (CLP) : Danger

Hazard statements (CLP) : H318 - Causes serious eye damage

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling

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

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

EUH-statements : EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent
Name : TARTARIC ACID LAFFORT

CAS-No. : 87-69-4 EC-No. : 201-766-0

Name	Product identifier	%
L(+) Tartaric acid	(CAS-No.) 87-69-4	100
	(EC-No.) 201-766-0	
	(REACH-no) 01-2119537204-47	

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

## 4.1. Description of first aid measures

First-aid measures general : If symptoms persist call a doctor.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a

physician.

First-aid measures after skin contact : After contact with skin, wash immediately and thoroughly with water and soap. If symptoms

persist, call a physician.

First-aid measures after eve contact : In case of eve contact, immediately rinse with clean water for 10-15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by

mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : More detailed information: See section 11.

Safety Data Sheet

according to Regulation (EU) 2015/830

Symptoms/effects after eye contact : Eye irritation. Serious damage to eyes.

### 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 : carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.

Unsuitable extinguishing media : Do not use water jet.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

: Toxic fumes may be released. Carbon oxides (CO, CO2).

fire

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Do not contaminate ground and surface water. Dispose in a safe manner in accordance with

local/national regulations.

### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

Measures in case of dust release : Avoid dust formation.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Do not flush into surface water or sewer system.

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

Methods for cleaning up : Mechanically recover the product. Contain leaking substance, pump over in suitable

containers. Clean contaminated surfaces with an excess of water.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of

the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Technical measures : Keep only in the original container.

### **Safety Data Sheet**

according to Regulation (EU) 2015/830

Storage conditions : Keep container tightly closed to prevent moisture pick-up. Store in a dry, cool place. Keep out

of direct sunlight.

Incompatible products : Oxidizing agents, bases and reducing agents.

### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

TARTARIC ACID (87-69-4)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	≈ mg/m³	
Long-term - systemic effects, dermal	≈ 2,9 mg/kg bodyweight/day NOAL: 145 mg/kg bw/day	
Long-term - systemic effects, inhalation	≈ 5,2 mg/m³ NOAL: 260 mg/kg bw/day	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	$\approx$ 8,1 mg/kg bodyweight/day NOAL: 810 mg/kg bw/day	
Long-term - systemic effects, inhalation	≈ 1,3 mg/m³ NOAL: 130 mg/kg bw/day	
Long-term - systemic effects, dermal	≈ 1,5 mg/kg bodyweight/day NOAL: 150 mg/kg bw/day	

#### 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8.

### Materials for protective clothing:

acid resistant clothing

### **Hand protection:**

Protective gloves. Protective gloves made of PVC. Butyl rubber gloves. Nitrile rubber gloves. Natural rubber

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Natural rubber, Nitrile rubber (NBR), Butyl rubber, Polyvinylchloride (PVC)				EN 374

### Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	With side shields	EN 166

### Skin and body protection:

### Safety Data Sheet

according to Regulation (EU) 2015/830

#### Wear suitable protective clothing

Туре	Standard
Chemically resistant protective gloves	EN 374

### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### **Environmental exposure controls:**

Do not allow into drains or water courses. Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystals.
Colour : white.

Odour : odourless.

Odour threshold : No data available

pH : No data available

pH solution :  $\approx 2,2\ 100g/L - 20$  °C Relative evaporation rate (butylacetate=1) : No data available

Melting point :  $\approx$  169 °C 1.013 hPa

Freezing point : Not applicable

Boiling point : > 179,1 °C 1.013 hPa

Flash point : > 100 °C Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : >220 °C

Flammability (solid, gas) : Non flammable

Vapour pressure : < 5 Pa 20°C

Relative vapour density at 20 °C : No data available

Relative density : Not applicable

Density :  $\approx 1,76 \text{ g/cm}^3 20^{\circ}\text{C}$ Solubility : Soluble in ethanol.

Water: ≈ 1390 g/I 20°C

Log Pow : No data available

### Safety Data Sheet

### according to Regulation (EU) 2015/830

Viscosity, kinematic : Not applicable

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : Not applicable

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Exothermic reaction on contact with: Oxidizing agents, bases and reducing agents. fluorine. silver. Metals.

### 10.4. Conditions to avoid

Heat. flames or sparks. Moisture.

### 10.5. Incompatible materials

oxidants, strong acids and strong bases.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

L(+) Tartaric acid (87-69-4)		
LD50 oral rat	> 2000 mg/kg bodyweight	
LD50 dermal rat	> 2000 mg/kg bw/day	

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Severe eye irritation

Additional information : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

### **Safety Data Sheet**

according to Regulation (EU) 2015/830

Reproductive toxicity : Not classified

L(+)	Tartaric	acid (87	<b>'-69-4</b> )
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NOAEL (animal/female, FO/P) ≈ 181 mg/kg bodyweight

STOT-single exposure : Not classified

### L(+) Tartaric acid (87-69-4)

NOAEL (oral, rat) ≈ 2460 mg/kg bodyweight

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

L(+) Tartaric acid (87-69-4)		
LC50 fish 1	> 100 mg/l 48h	
EC50 Daphnia 1	≈ 93,3 mg/l 24h	
EC50 72h algae (1)	≈ 51,4 mg/l	

### 12.2. Persistence and degradability

L(+) Tartaric acid (87-69-4)		
Persistence and degradability	Biodegradable.	
Biochemical oxygen demand (BOD)	$\approx 0.35 \mathrm{g}\mathrm{O}_2$ /g substance DB05	
Chemical oxygen demand (COD)	$\approx 0.53 \text{ g O}_2$ /g substance	
Biodegradation	> 80 %	

### 12.3. Bioaccumulative potential

L(+) Tartaric acid (87-69-4)		
Log Kow	≈-1,91 20°C	
Bioaccumulative potential	There is no bioaccumulation.	

### 12.4. Mobility in soil

No additional information available

### **Safety Data Sheet**

according to Regulation (EU) 2015/830

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other adverse effects : Do not allow to enter drains or water courses.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Do not flush into surface water or sewer system. Sewage disposal recommendations

Product/Packaging disposal : Empty remaining contents. Dispose of contents/container in accordance with licensed recommendations

collector's sorting instructions.

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : Not regulated : Not regulated UN-No. (IMDG) UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated

### 14.2. UN proper shipping name

: Not regulated Proper Shipping Name (ADR) Proper Shipping Name (IMDG) : Not regulated **Proper Shipping Name (IATA)** : Not regulated : Not regulated Proper Shipping Name (ADN) Proper Shipping Name (RID) : Not regulated

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

#### **ADR**

Transport hazard class(es) (ADR) : Not regulated

### **IMDG**

Transport hazard class(es) (IMDG) : Not regulated

### **IATA**

Transport hazard class(es) (IATA) : Not regulated

#### **ADN**

Transport hazard class(es) (ADN) : Not regulated

### **RID**

### Safety Data Sheet

according to Regulation (EU) 2015/830

Transport hazard class(es) (RID) : Not regulated

### 14.4. Packing group

Packing group (ADR) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated
Packing group (ADN) : Not regulated
Packing group (RID) : Not regulated

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

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

Not applicable

### **SECTION 15: Regulatory information**

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TARTARIC ACID is not on the REACH Candidate List

TARTARIC ACID is not on the REACH Annex XIV List

### 15.1.2. National regulations

### Germany

### Safety Data Sheet

according to Regulation (EU) 2015/830

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex

3; ID No. 5094)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

giπige stoπen – vruchtbaarneid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

: The substance is not listed

**Denmark** 

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

### SECTION 16: Other information

Indication of changes:			
Revision - See : *.			
Section	Changed item	Change	Comments
3.1	Composition/information on	Modified	
	ingredients		

Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H318	Causes serious eye damage
EUH210	Safety data sheet available on request

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product