

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 10-Nov-2016

Print date: 10-Nov-2016

Version: 3 modifiziert

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Powering Business Worldwide

L(+) Tataric Acid

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

1.1. Product identifier

Trade name/designation:

L(+) Tataric Acid

REACH No.:

01-2119537204-47

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

Use of the substance/mixture:

Product for Winetreatment.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Eaton Technologies GmbH

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

Telephone: +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

Telefax: +49 6704 204-121

E-mail: SDB@Eaton.com

Website: www.eaton.com/filtration

Notfallauskunft bei Vergiftungen: Giftinformationszentrum Mainz (Deutsch und Englisch). Emergency medical information: Poison information center Mainz (German and English).

1.4. Emergency telephone number

24h: +49 6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

2.2. Label elements

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

Hazard pictograms:



GHS05

Corrosion

Signal word: Danger

hazard statements for health hazards

H318 Causes serious eye damage.

Precautionary statements Prevention

P264.1 Wash hands thoroughly after handling.

P280.6 Wear eye protection/face protection.

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Precautionary statements Response

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.

2.3. Other hazards

Adverse physicochemical effects:

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

SECTION 3: Composition / information on ingredients

3.1. Substances

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 87-69-4 EC No.: 201-766-0 REACH No.: 01-2119537204-47	L+Weinsäure Danger H318	100 %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

Subsequently wash off with: Water

In case of skin irritation, consult a physician.

IF ON CLOTHING: Take off immediately all contaminated clothing.

After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion:

Induce vomiting when the affected person is not unconscious. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant

Gastrointestinal complaints

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:

Water, Water spray, Foam, Extinguishing powder, Carbon dioxide (CO2)

Unsuitable extinguishing media:

High power water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid dust formation. Provide adequate ventilation.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Take up mechanically. Avoid dust formation. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

6.5. Additional information

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Conditions to avoid: Dust deposits, Generation/formation of dust

Dust must be exhausted directly at the point of origin.

Fire prevent measures:

Take precautionary measures against static discharges. Explosive dust-air mixtures may form. Dust explosion category: St 1; minimum ignition energy in mJ 10; Ignition temperature in °C 510 °C;

Advices on general occupational hygiene

Wash hands before breaks and after work.

Use protective skin cream before handling the product.

When using do not eat, drink, smoke, sniff.

Remove contaminated, saturated clothing. Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Keep container dry.

Requirements for storage rooms and vessels:

Suitable floor material: acid-resistant

Keep/Store only in original container.

Hints on storage assembly:

Do not store together with: Base, Oxidising agent

Storage class: 11 - Combustible solids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	L+Weinsäure CAS No.: 87-69-4	① 2 mg/m ³ ② 4 mg/m ³ ⑤ einatembare Fraktion

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
L+Weinsäure CAS No.: 87-69-4	5.2 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
L+Weinsäure CAS No.: 87-69-4	1.3 mg/m ³	① DNEL Consumer ② DNEL long-term inhalative (systemic)
L+Weinsäure CAS No.: 87-69-4	2.9 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)
L+Weinsäure CAS No.: 87-69-4	1.5 mg/kg bw/day	① DNEL Consumer ② DNEL long-term dermal (systemic)
L+Weinsäure CAS No.: 87-69-4	8.1 mg/kg bw/day	① DNEL Consumer ② DNEL long-term oral (repeated)

Substance name	PNEC Value	① PNEC type
L+Weinsäure CAS No.: 87-69-4	1.141 mg/kg	① PNEC sediment, marine water
L+Weinsäure CAS No.: 87-69-4	1.141 mg/kg	① PNEC sediment, freshwater
L+Weinsäure CAS No.: 87-69-4	10 mg/l	① PNEC sewage treatment plant (STP)
L+Weinsäure CAS No.: 87-69-4	0.312 mg/l	① PNEC aquatic, marine water
L+Weinsäure CAS No.: 87-69-4	0.312 mg/l	① PNEC aquatic, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Avoid dust formation. Dust must be exhausted directly at the point of origin.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses

Skin protection:

Protect skin by using skin protective cream.

Hand protection: Suitable material: Butyl caoutchouc (butyl rubber)

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.

Breakthrough time (maximum wearing time): > 120 min (EN 374)

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Respiratory protection:

Respiratory protection necessary at: dust formation

Suitable respiratory protection apparatus: Filtering device (DIN EN 147) P 1

Other protection measures:

General health and safety measures: Avoid contact with eyes and skin. Do not breathe dust.

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Powder, crystalline

Colour: colourless

Odour: odourless

Safety relevant basis data

parameter		at °C	Method	Remark
pH	2.2	25 °C		Gehalt an gelöster Substanz: 7,5 g/L
Melting point	168 - 170 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	179.1 °C			
Decomposition temperature (°C):	425 °C			
Flash point	> 100 °C			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	375 °C		1013 hPa NFT 20-036	
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	1.76 g/ml			
Bulk density	800 - 1,100 kg/m ³			
Water solubility (g/L)	1,390 g/l	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Explosive dust-air mixtures may form.

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10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Reacts with : Alkali (lye), Acid, Oxidising agent

10.6. Hazardous decomposition products

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Rat

Acute toxicity (oral), LC0: 7500 mg/kg

Acute toxicity (oral), NOAEL: 2460 mg/kg bw/d (chronic)

Acute toxicity (oral) LC50: >2000 mg/kg bw (OECD 423)

Acute toxicity (oral), NOAEL: 181 mg/kg bw/d (teratogenicity)

Acute dermal toxicity:

Rat

Acute toxicity (dermal) LC50: >2000 mg/kg bw (OECD 402)

Skin corrosion/irritation:

Rabbit: Not an irritant. OECD 404

Eye damage/irritation:

Risk of serious damage to eyes.

Respiratory or skin sensitisation:

not sensitising. OECD 429

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.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

Acute fish toxicity:

LC50: (96h): > 100 mg/L (OECD 203)

Algae toxicity:

EC50: (72h): 51,4 mg/L (OECD 201)

Acute Daphnia toxicity:

Daphnia magna: EC50 (48h): 93,13 mg/L (OECD 202)

Terrestrial toxicity:

not determined

Effects in sewage plants:

Product is acid. Before discharge into sewage plants the product normally needs to be neutralised.

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12.2. Persistence and degradability

Biodegradation:

not applicable

12.3. Bioaccumulative potential

Accumulation / Evaluation:

log Kow: -1,91

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

Further ecological information: According to the present state of knowledge negative ecological effects are not expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer. Dispose of waste according to applicable legislation. This material and its container must be disposed of as hazardous waste.

Waste treatment options

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.
not relevant
14.2. UN proper shipping name
not relevant
14.3. Transport hazard class(es)
not relevant
14.4. Packing group
not relevant
14.5. Environmental hazards
not relevant
14.6. Special precautions for user
not relevant
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not relevant

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SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Technische Anleitung Luft (TA-Luft)

Ziffer 1:

5.2.1

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

Source:

S Selbsteinstufung

Other regulations, restrictions and prohibition regulations

1991/689 (2001/118); 2004/42; 648/2004; 1907/2006; 1272/2008; 75/324/EWG; (2008/47); 435/2010, (EU) 2015/830.

Transport information : ADR/RID (2015); IMDG-CODE-Class (2015, 37. Amdt.); Air transport (ICAO-TI / IATA-DGR) (2016)

National regulations: GefStoffV 2011; WRMG; WHG; TRG 300; TRGS: 200, 615, 900, 905, 220, 400

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

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 11: Toxicological information

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H318	Causes serious eye damage.

16.6. Training advice

No data available

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16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.