



**ALVINESA ALCOHOLERA VINICOLA S.A**  
13250-Daimiel (Ciudad Real)

**ET-AT.03**

Fecha: October, 2015

Rev. N°: 4

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## SAFETY DATA SHEET: TARTARIC ACID

### 1).- PRODUCT AND COMPANY IDENTIFICATION

#### 1.1.- Product identification:

Denomination: L – (+) – Tartaric Acid 99+ %

L – (+) – Dihidrosuccinic Acid

N° Reg. REACH.- 01-2119537204-47-0006

1.2.- Use of the substance: Chelating agent, acidulant in drinks, efferverscent drinks, in galvanotechnics

#### 1.3.- Producer identification:

Company name: ALVINESA ALCOHOLERA VINICOLA S.A.

Address: Cra. Daimiel – Valdepeñas, Km 4,8

ZIP-City: 13250-Daimiel

Province: Ciudad Real

Phone: +34 926260670 Fax: +34 926260672

e-mail: [alvinesa@alvinesa.com](mailto:alvinesa@alvinesa.com)

1.4.- Urgence telephone: Servicio Médico de Información Toxicológica (Spain) +34 915620420

### 2).- HAZARD IDENTIFICATION

Hazard Pictogram:



GHS05: corrosion

#### Hazard statements:

H318 Causes serious eye damage.

#### Precautionary statements:

P264 Wash...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.

**Classification (67/548/CEE or 1999/45/CE).**



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*Sentences of Danger R:*

- R 36 : Irritating for the eyes
- R 37 : Irritating for the respiratory system.
- R 38 : Irritating for the skin

*Sentences of Security S:*

- S 26 : In case of eye contact, clean immediately with abundant water and submit to a medical prescription.
- S 37 : Use suitable protection gloves.
- S 39 : Protect eyes and face.



### 3).- COMPOSITION, COMPONENTS INFORMATION

- a) N° CAS: 87-69-4
- b) N° EINECS: 201-766-0
- c) Molecular formula :  $C_4H_6O_6$
- d) Molecular weight: 150,09
- e) N° ONU: Not available

### 4).- FIRST AID

- 4.1.- *Inhalation*: Move the victim to a ventilated area. If the victim doesn't breath, practise artificial respiration. If the respiration results difficult you must provide oxygen. Seek medical assistance if cough or any other symptoms appear.
- 4.2.- *Skin contact*: Rinse the affected area with plenty of water and soap. If the irritation persists, seek medical assistance.
- 4.3.- *Eye contact*: Rinse with abundant of water during 15 minutes, occasionally raising the superior and inferior eyelids. Seek medical assistance
- 4.4.- *Ingestion*: If the victim is conscious and reasons, give him between  $\frac{1}{2}$  - 1 litre of water or milk. Seek medical assistance if irritation symptoms appear.
- 4.5.- *Note for the doctor*: Symptomatic treatment.

### 5).- FIRE-FIGHTING MEASURES

- 5.1.- *General Information*: you must have an individual system of artificial respiration and a complete protection dress. The Tartaric Acid in sufficient quantity and reduced particle can make powdered explosions in case of fire.
- 5.2. - *Ways of Extinction*: In case of fire you must use a water extinguisher, a foam extinguisher, CO<sub>2</sub> or a chemical foam extinguisher.
- 5.2. - *Auto ignition temperature*: 425 °C (797 °F).
- 5.3. - *Combustible point*: 210 °C (410 °F).
- 5.4.- *Limit point of explosion*.- Inferior: Not available  
Superior: Not available
- 5.5.- *Parameters NFPA*:

Health.-	0	(None)
In flammability.-	1	(Light)
Reactivity.-	0	(None)
Contact.-	1	(Light)

### 6).- ACCIDENTAL RELEASE MEASURES

- 6.1.- *General information*: Use personal protection equipment with characteristics indicated in the point nº 8.
- 6.2.- *Cleaning*: Remove the product overflow with precaution without making powder. Store in an appropriate, clean and dry container.



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## 7).- HANDLING AND STORAGE

7.1.- *Manipulation:* Prevent contact with skin and eyes. Clean clothing after manipulation. Handle with adequate ventilation. Avoid inhalation and ingestion.

7.2.- *Storage:* Store in a fresh and dry surrounding. If possible in closed containers.

## 8).- EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.- *Environmental control:* A good general ventilation is sufficient to control the level of product in the air.

8.2.- *Personal protection:*

- a) *Eye protection:* Use adequate protection glasses as describe in the Protection Norms OSHA (29 CFR 1910.133) or in the European Standard Norm EN166.  
It's recommended to have an eye bath near.
- b) *Hand protection:* Use adequate protection gloves to prevent exposure to the skin, PVC, Nitril or another equivalent.
- c) *Body protection:* Use adequate protection clothing resistant to chemical products.
- d) *Respiratory protection:* Use a masks of the Norm OSHA (29 CFR 1910.134) or European Norm EN 149.

## 9).- PHYSICAL AND CHEMICAL PROPERTIES

- a) *Physical estate:* Solid
- b) *Appearance:* Powders granules crystalline white, odourless.
- c) *Molecular formula:* C<sub>4</sub> H<sub>6</sub> O<sub>6</sub>
- d) *Molecular weight:* 150.09
- e) *pH:* 2.1 in watery solution at 1 %
- f) *Vapour pressure:* < 0.1 mbar a 20 °C
- g) *Fusion point:* 168 – 172 °C
- h) *Decomposition temperature:* > 220 °C
- i) *Specific rotation (sol. at 20 %):* + 11.9 - + 13.0
- j) *Solubility in water:* 1390 gr/l a 22 °C

## 10).- STABILITY AND REACTIVITY

10.1.- *Chemical stability:* Stable under normal conditions of Pressure and Temperature.

10.2.- *Conditions to avoid:* Incompatible matters.

10.3.- *Incompatibility with other matters:* Silver, base, oxidative agents, reduced agents.

10.4.- *Products of dangerous decomposition:* Carbon monoxide and carbon dioxide.

10.5.- *Dangerous polymerisation:* Does not happen.



## 11).- TOXICOLOGICAL INFORMATION

### 11.1. Acute toxicity:

LD L0 oral rbt : 5.000 mg/kg

LD L0 oral rbt : 5 g/Kg

### 11.2. Dangerous effects for health:

Low toxicity. Upon contact with the skin: Can cause irritations Through contact with the eyes: Causes irritations If dust inhaled: Can cause irritations slight Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

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## 12).- ECOLOGICAL INFORMATION

### 12.1 Mobility:

Repartition: log P(oct)= -0,76

### 12.2 Ecotoxicity:

12.1.1 - EC50 test (mg/l):

Fish (C. auratus) EC0 200 mg/l

Classification: Highly toxic

12.2.2 - Receptor medium:

Risk for the water environment

Low

Risk for the land environment

Low

12.2.3 - Observations:

Acute ecotoxicity in the dumping area.

### 12.3 Degradability:

12.3.1 - Test:

BOD5 = 0.35 g/g

COD = 98%

12.3.2 - Biotic degradation classification:

ThOD 0,533 g/g

BOD5/COD

Biodegradability

High, over 1/3

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

Easily biodegradable product.

### 12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

Non-bioaccumulable product.

### 12.5 Other possible effects on the environment:

Non-pollutant product.



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### **13).- DISPOSAL CONSIDERATIONS**

#### *13.1 Substance or preparation:*

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

#### *13.2 Contaminated containers:*

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

### **14).- TRANSPORT INFORMATION**

14.1.- Overland (ADR): Not regulated as hazardous material

14.2.- By sea (IMDG): Not regulated as hazardous material

14.3.- By air (ICAI-IATA): Not regulated as hazardous material

### **15).- REGULATORY INFORMATION**

15.1.- Regulation (EC) No 1272/2008 (CLP) according to which has prepared this Safety Data Sheet.

15.2.- Labelling: According to EEC standards.

### **16).- OTHER INFORMATION**

16.1.-The information indicated in this Security File is based on our actual knowledge and isn't representative of a guarantee on its suitability. The receiver of our product must observe, under his responsibility, the correspondent rules and norms.