essedielle
ENOLOGIALIMENTAZIONE
SISTEMA DI GESTIONE PER LA SICUREZZA ALIMENTARE
CERTIQUALITY
UNI EN ISO 22000:2018
OPERATORE CONTROLLATO S 1262
CERTIFICATO ICEA BIOLOGICO
essedielle srl
Loc. Macinini Fraz. Caldari
66026 Ortona (CH)
Num. REA CH-72915
P.IVA e CF: 00639090695
Codice Univoco SUBM70N
Capitale Sociale € 100.000,00

SAFETY DATA SHEET

TARTARIC ACID

Revision No. 12, November 2023; Complies with Reg (EU) 2020/878

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE MANIFACTURING COMPANY

1.1 Product identification
Trade name: natural tartaric acid from wine production
Chemical name and synonyms: L + Tartaric Acid
CAS Number: 87-69-4
EC Number: 201-766-0
REACH Number: 01-2119537204-47-XXXX

1.2 Relevant identified uses of the substance/mixture and uses not recommended
Food additive (E334), for professional use only.

1.3 Information about the supplier of the safety data sheet
essedielle srl
S.P. 538 km. 6,950 - CALDARI
66026 ORTONA (CH)
ITALY
Phone: +39 (0) 85 9031315
Qualified persons responsible for the safety data sheet: laboratorio@essedielle.com

1.4 Emergency telephone number: essedielle srl +39 (0) 85 9031315 – 0039 3668134126
Poison Control Center
S.S. Annunziata Hospital – Chieti +39 0871 1551219

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture
Criteria Regulation EC 1272/2008 (CLP): Hazard, Eye Dam. 1, Causes severe eye injury. Physicochemical effects harmful to human health and the environment: no other hazards.

2.2 Label elements
Symbols:

Warning
Warning Codes: GHS05;
H318 Causes severe eye injury
Cautionary Statements:
Prevention
P280 Wear protective gloves/protective clothing/eye/face protection.
Reaction
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Transport the casualty to fresh air and keep at rest in a position conducive to breathing.
P305+P351+P338 IF IN EYES: rinse thoroughly for several minutes. Remove any contact lenses if it is comfortable to do so. Continue to rinse.
P310 Contact a POISON CENTER or doctor immediately.

2.3 Other hazards
vPvB Substances: none - PBT Substances: none

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Other hazards
No other dangers.
The use of this chemical agent entails the obligation of "Risk Assessment" by the employer according to the provisions of Legislative Decree No. 81 of April 9, 2008, as amended. Workers exposed to this chemical agent do not have to undergo health surveillance if the results of the risk assessment show that, in relation to the type and quantity of the hazardous chemical agent and the manner and frequency of exposure to this agent, there is only a "Moderate Risk" to the health and safety of workers and that the measures provided in the same Dlgs. are sufficient to reduce the risk.

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances
Identification of the substance
CAS Number: 87-69-4
EC Number: 201-766-0
REACH Number: 01-2119537204-47-XXXX
Hazardous components under EC Regulation 1272/2008 (CLP) and their classification: none

3.2 Mixtures

Substance	Concentration	CAS	EINECS	REACH	Classification
L (+) tartaric acid	99.8%	87-69-4	201-766-0	01-2119537204-47-XXXX	Eye Dam. 1, H318

4. FIRST AID MEASURES

4.1 Description first aid measures
In case of inhalation: remove the injured person to fresh air. If breathing is difficult give oxygen or practice artificial respiration.
In case of skin contact: remove contaminated clothing immediately. Instantly wash areas of the body that have come in contact with the toxicant, even if only suspected, with plenty of running water and soap if necessary. Wash the body completely (shower or bath).
In case of eye contact: wash immediately with running water with open eyelids for at least 15 minutes. Consult an ophthalmologist. Protect the uninjured eye.
In case of ingestion: induce vomiting. Seek immediate medical attention, showing the safety data sheet. Activated charcoal in water or medicinal mineral vaseline oil can be administered.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing means
Suitable extinguishing means
Water. Carbon dioxide (CO2).
Extinguishing media that should not be used for safety reasons
None in particular.

5.2 Special hazards from combustion products
Do not inhale the gases produced by the explosion and combustion.

5.3 Recommendations for fire suppression operators
Employ appropriate respiratory equipment. Collect contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If feasible from a safety standpoint, move undamaged containers from the immediate danger area.

5.4 Other information
Water used in firefighting that is contaminated with the product should be disposed of in accordance with local regulations.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, personal protective equipment and emergency procedures
Wear personal protective equipment. Move people to a safe place. Refer to the protective measures set out in section 7 and 8.

6.2 Environmental precautions
Prevent penetration into the soil/subsoil. Prevent runoff into surface water or sewage system.

6.3 Methods and materials for containment and remediation
Small quantities: wash with plenty of water.

6.4 Reference to other sections
See also paragraph 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid skin and eye contact, inhalation of vapors and mists.
Do not eat or drink while working.
Also refer to section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials: none in particular.
See also section 10 below.
Indication for premises: adequately ventilated premises.

7.3 Specific end uses
None in particular.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 Control parameters
Substance:
L- (+)-TARTARIC ACID No occupational exposure limits available.

DNEL exposure limit values
L (+) TARTARIC ACID - CAS: 87-69-4
Occupational worker: 2.9 mg/kg - Exposure: Human Dermal - Frequency: Long-term, systemic effects
Professional worker: 5.2 mg/m3 - Exposure: Human inhalation - Frequency: Long term, systemic effects
Consumer: 1.5 mg/kg - Exposure: Human Dermal - Frequency: Long-term, systemic effects
Consumer: 1.3 mg/m3 - Exposure: Human inhalation - Frequency: Long-term, systemic effects

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Consumer: 8.1 mg/kg - Exposure: Oral Human - Frequency: Long-term, systemic effects

PNEC exposure limit values
Data not available

8.2 Exposure controls

When handling the pure product, wear skin protective clothing (general work dress, S3-EN ISO 20345 safety shoes) or other protective equipment as directed by the RSPP.

Eye protection
Use safety glasses (EN 166) when handling the pure product. However, operate according to good working practices.

Skin protection
No special precautions are required for normal use.

Hand protection
When handling the pure product, use protective gloves (EN 374-1/EN374-2/EN374-other protective equipment as directed by the RSPP.

Respiratory protection
Not required for normal use. During manual operations in case of inadequate ventilation, use mask with filters for inorganic gases and vapors - Brown, Class 3, A (EN 143) unless otherwise ordered by the RSPP and/or environmental hygiene survey assessments.

Thermal hazards
None

Environmental exposure controls
None

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	White granules
Shape	Granular
Color	White
Odor	None
Olfactory threshold	None
Ph value	2.2 sol 5%
CHANGE OF STATE	
Melting point/interval	170 °C
Boiling point/interval	179 °C
Flash point	Greater than 100 °C
Flammability (solids, gases)	Non-flammable
Auto-ignition temperature	375 °C
Decomposition temperature	Not determined

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Explosive properties	Not determined
Lower flammability limits	Not determined
Upper flammability limits	Not determined
Vapor pressure at 20°C	Not determined
Density at 20°C	1.73 g/ml
Relative density	Not determined
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water:	1390 g/l
Specific rotation	Not determined
Partition coefficient: n-octanol/water	Not determined
Dynamic Viscosity at 20 °C	Not determined
Kinematic Viscosity	Not determined

9.2 Other information

Molecular mass	Not determined
Conductivity	Not determined
Liposolubility	Not determined
Particular properties groups of substances	
Other Useful Information	None

10. STABILITY AND RESPONSIVENESS

10.1 Responsiveness
Under normal conditions, it is completely stable to air and light. It is neither hygroscopic nor efflorescent.

10.2 Chemical stability
Under normal conditions, it is completely stable to air and light. It is neither hygroscopic nor efflorescent.

10.3 Possibility of dangerous reactions
No dangerous reactions.

10.4 Conditions to be avoided
Do not bring the product to temperatures above 200 °C.

10.5 Incompatible materials
None in particular.

10.6 Hazardous decomposition products
None

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11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes defined in Regulation (EC) No. 1272/2008

Toxicological information regarding the mixture:

L (+) TARTARIC ACID - CAS: 87-69-4

a) acute toxicity: not classified. Based on available data, the classification criteria are not met.
   Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
   Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
   Test: Irritating to eyes Positive
b) skin corrosion/irritation: not classified. Based on available data, the classification criteria are not met. Test: Irritating to skin - Pathway: Skin Negative
c) serious eye injury/serious eye irritation: product is classified: Eye Dam. 1 H318
d) respiratory or skin sensitization: not classified. Based on available data, the classification criteria are not met.
e) germ cell mutagenicity: not classified. Based on available data, the classification criteria are not met.
f) carcinogenicity Not classified Based on available data, the classification criteria are not met.
g) reproductive toxicity: not classified. Based on available data, the classification criteria are not met.
h) specific target organ toxicity (STOT) - single exposure: not classified. Based on available data, the classification criteria are not met.
i) specific target organ toxicity (STOT) - repeated exposure: not classified. Based on available data, the classification criteria are not met.
j) aspiration hazard: not classified.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Use according to good working practices, avoiding dispersion of the product into the environment.

Not classified for environmental hazards Based on available data, the classification criteria are not met.

a) Aquatic toxicity (acute)

LC50 for freshwater fish: 100 mg/L
EC50/LC50 for freshwater invertebrates: 93.3 mg/L
EC50/LC50 for freshwater algae: 51.4mg/L
EC10/LC10 or NOEC for freshwater algae: 3.125 mg/L
Fish, daphnia, algae and acute aquatic toxicity are above 1 mg/L
96h LC50 (fish)> 100 mg/L,
48h EC50 (Daphnia) = 93.3mg/L,
72h and ErC50 (algae) = 51.4mg/L
As a result, the substance does not meet the acute classification criteria according to Regulation (EC) No. 1272/2008, Annex I, Section 4.1.
Fish, daphnia, algae and acute aquatic toxicity are greater than 10 mg/L and less than 100 mg/L
96h LC50 (fish)> 100 mg / L,
48h EC50 (Daphnia) = 93.3mg / L,
72h and ErC50 (algae) = 51.4 mg / L
In addition, the substance is very soluble, biodegradable and has ready a log Kow of -1.91. As a result, the substance does not meet the criteria for chronic classification according to Regulation (EC) No. 1272/2008, Annex I section 4.1.
Use according to good working practices, avoiding dispersion into the environment.

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12.2 Persistence and degradability
Biodegradation in water: readily biodegradable. Substance should degrade in readily sewage treatment plants.

12.3 Bioaccumulation potential
Aquatic bioaccumulation study should not be carried out as the substance is readily biodegradable (log Kow <3).

12.4 Mobility in soil
N.A.

12.5 Results of PBT and vPvB assessment
vPvB substances: none - PBT substances: none

12.6 Other adverse effects
None.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
PRODUCT
Inorganic product not to be disposed of through biological treatment systems. Dispose of residues in compliance with current regulations through authorized disposers.
Recover if possible. Operate in accordance with current local and national regulations.
CONTAMINATED PACKAGING
Empty as best as possible by fully opening them. Dispose of in accordance with the constituent material.

13.2 HP Phrases
None

14. TRANSPORTATION INFORMATION

14.1 UN Number
Non-dangerous good within the meaning of transport regulations.

14.2 UN proper shipping name
N.A.

14.3 Transport hazard class(es)
N.A.

14.4 Packing group
N.A.

14.5 Environmental hazards Marine pollutant
No

14.6 Special precautions for users
N.A.

14.7 Transport of bulk according to MARPOL Annex II and the IBC Code
N.A.

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15. REGULATORY INFORMATION

15.1 Health, safety and environmental regulations and legislation specific to the substance or mixture
Legislative Decree 3/2/1997 No. 52 (Classification, packaging and labeling of dangerous substances)
Legislative Decree 14/3/2003 No. 65 (Classification, packaging and labeling of dangerous preparations)
D.M. Labor 26/02/2004 (Occupational exposure limits)
Ministerial Decree 03/04/2007 (Implementation of Directive No. 2006/8/EC)
Regulation (EC) No. 1907/2006 (REACH)
Regulation (EC) No. 1272/2008 (CLP)
Regulation (EC) No. 790/2009 (ATP 1 CLP)
Regulation (EU) No 453/2010 (Annex I)
Regulation (EU) No 286/2011 (ATP 2 CLP)
Restrictions on the product or substances contained under Annex XVII of the
Regulation (EC) 1907/2006 (REACH) and subsequent adaptations: None
Where applicable, please refer to the following regulations:
Ministerial Circulars 46 and 61 (Aromatic Amines).
Legislative Decree No. 238 of September 21, 2005 (Seveso Ter Directive).
EC Regulation No. 648/2004 (Detergents).
Royal Decree January 9, 1927, no. 147 (Toxic Gases)
D.L. 3/4/2006 n. 152 Environmental regulations.

15.2 Chemical safety assessment
No

16. OTHER INFORMATION

This sheet cancels and replaces any previous edition.

Main bibliographic sources
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities.
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition -Van Nostrand Reinold
CCNL - Annex 1
National Institute of Health - National Inventory of Chemical Substances.

The information contained herein is based on our knowledge as of the date above.

It refers only to the product indicated and does not constitute a guarantee of any particular quality.

The user is responsible for ensuring the suitability and completeness of this information in relation to the specific use to be made of it.

LEGEND SYMBOLS
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Service of the Chemical Abstract (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived no-effect level.
EINECS: European inventory of existing chemicals on the market.
GefStoffVO: Ordinance on hazardous substances, Germany.
GHS: General harmonized system of classification and labeling of chemicals.

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IATA: International Air Transport Association.
IATA-DGR: Regulations for the transportation of dangerous goods of the "International Air Transport Association"(IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"(ICAO).
IMDG: International Maritime Dangerous Goods Code.
INCI: International nomenclature of cosmetic ingredients.
KSt: Coefficient of explosion.
LC50: Lethal concentration for 50 percent of the population tested.
LD50: Lethal dose for 50 percent of the population tested.
N.A.: Not Available
PNEC: Predicted no-effect concentration.
RID: Regulations concerning the international transport of dangerous goods by rail.
STE: Short-term exposure.
STEL: Short-term exposure limit.
STOT: Specific target organ toxicity.
TLV: Threshold limit value.
TWATLV: Threshold limit value for an 8-hour weighted average exposure per day. (ACGIH standard).
WGK: German water hazard class.