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

L-ASCORBIC ACID

Revision No. 5, October 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
Chemical name: 2,3-didehydro-L-threo-hexono-1,4-lactone; 3-keto-L-gulofuranolactone
Trade names and synonyms: Ascorbic Acid E330, Vit. C

1.2. Relevant identified uses of the substance/mixture and uses not recommended
Food additive E330, 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 EC Regulation 1272/2008 (CLP): the product is not considered hazardous according to EC Regulation 1272/2008 (CLP).
Physicochemical effects harmful to human health and the environment: no other hazards

2.2 Label elements
Symbols: none
Hazard Statements: none
Cautionary Statements: none
Special Provisions: none
Special provisions according to Annex XVII of REACH and subsequent adaptations: none

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

2.4 Other hazards
No other danger

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances.
Hazardous components under EC Regulation 1272/2008 (CLP) and their classification: none

3.2 Mixtures
No mixtures, pure product.

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.

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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.
In case of inhalation: take the injured person outdoors and keep him warm and at rest.

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.

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Indication for premises: suitably ventilated premises.

7.3. Specific end uses
None in particular

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 Control parameters
No occupational exposure limits available
Exposure limit values DNEL: N.A.
Exposure limit values PNEC: N.A.

8.2. Exposure controls

Eye protection
EN166 safety glasses.

Skin protection
No special precautions are required for normal use. Use protective gloves made of nitrile rubber EN374.

Hand protection
Use protective gloves of nitrile rubber EN374.

Respiratory protection
EN 145. Wear suitable respiratory equipment in case of insufficient ventilation.

Thermal hazards
None

Environmental exposure controls
None

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	Granules
Color	White
Odor	Typical
Olfactory threshold	None
Ph value	3 sol 5%
CHANGE OF STATE	
Melting point/interval	191 °C
Boiling point/interval	Not determined
Flash point	Higher than 380 °C
Flammability (solids, gases)	Not determined
Auto-ignition temperature	Not determined

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Decomposition temperature	Not determined
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	1,665 g/cm³ 20°C
Relative density	Not determined
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water:	333 g/l 20°C
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 effluorescent.

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

10.3. Possibility of dangerous reactions
Stable under normal conditions.

10.4. Conditions to be avoided
Stable under normal conditions. Heat, flames, sparks. Moisture. Do not mix with Potassium Metabisulfite.

10.5. Incompatible materials
None in particular.

10.6. Hazardous decomposition products
It can produce carbon oxides.

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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: the product is non-toxic.

Unless otherwise specified, the data required by Regulation 453/2010/EC below are intended to be undetermined:

a) acute toxicity;
b) skin corrosion/irritation;
c) severe eye injury/serious eye irritation: may be slightly Irritating to eyes.
d) respiratory or skin sensitization; : may be slightly Irritating to eyes
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) specific target organ toxicity (STOT) - single exposure;
i) specific target organ toxicity (STOT) - repeated exposure;
j) aspiration hazard.

Oral LD50 rat ≈ 11900 mg/kg body weight
LD50 oral ≈ 3367 mg/kg body weight Rat

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Related to contained substances according to 1272/2008/EC: not classified as hazardous to the aquatic environment.
Aquatic toxicity (acute)
Endpoint: LC50
Value: 1,020 mg/l
Species: rainbow trout (Oncorhynchus mykiss).
Exposure time: 96 h

12.2 Persistence and degradability
The material is readily biodegradable.
Theoretical Oxygen Demand: 0.9084 mg/mg
Theoretical carbon dioxide: 1.499 mg/mg
Process: biotic/abiotic
Degradation rate: 97 %
Time: 5 d

12.3 Bioaccumulation potential
It does not particularly concentrate in organisms. n-octanol/water (log KOW) -1.85 12.4.

12.4 Mobility in soil
Data not available

12.5 Other adverse effects
Data not available

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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.

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.
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.

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TWATLV: Threshold limit value for an 8-hour weighted average exposure per day. (ACGIH standard).
WGK: German water hazard class.