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

ERYTHRITOL

Revision No. 0, June 2024; 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: Erythritol
Chemical name and synonyms: (2R,3S)-butan-1,2,3,4-tetraol

1.2 Relevant identified uses of the substance/mixture and uses not recommended
Relevant identified uses: food additive(s)
Appropriate use: all permitted uses

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
No risks.

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

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

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances
Not applicable.

3.2 Mixture
Not applicable.

4. FIRST AID MEASURES

4.1 Description first aid measures
Immediately move contaminated clothing away from the product.
Move people to be rescued away from the place of danger and lie down on the ground.
In case of irregular breathing or respiratory blockage, practice give respiration.

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In case of inhalation: carry to a well-ventilated area; consult a doctor if any discomfort occurs. If the person is unconscious, arrange to hold him/her during transport in a stable position on his/her side.
In case of skin contact: wash immediately with soap and water, rinsing thoroughly. In case of persistent skin irritation, seek medical advice.
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: rinse your mouth and drink plenty of water. Do not induce vomiting. Call a doctor immediately.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing means
Suitable extinguishing means
Water spray. Foam. Fire extinguisher powder. Carbon dioxide.
Extinguishing media that should not be used for safety reasons
Water jets.

5.2 Special hazards from combustion products
If heated or in the event of fire, the product may develop toxic fumes.
In the event of fire, the following may be released:
- Carbon monoxide (CO)
- CO2

5.3 Recommendations for fire suppression operators
Specific protective equipment:
- Wear a self-contained breathing apparatus.
- Wear full protective suits.

5.4 Other information
Cool endangered containers with a jet of water.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, personal protective equipment and emergency procedures
Wear protective equipment. Keep unequipped persons away. In the case of vapors/dust/aerosols wear respiratory protection. High slip hazard due to spillage and spreading of product.

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
Collect the liquid with absorbent material (sand, tripoli, acid binder, universal binder, sawdust). Carry out recovery or disposal in suitable tanks. Dispose of contaminated material in accordance with point 13. Carefully clean up the site of the accident, diluting thoroughly with water.

6.4 Reference to other sections
For information on safe handling, see Chapter 7.
For information on personal protective equipment see Chapter 8.
See Chapter 13 for information on disposal.

7. HANDLING AND STORAGE

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7.1 Precautions for safe handling
Keep containers tightly closed.
Ensure good ventilation even at floor level (vapours are heavier than air).
Information in case of fire and explosion:
Keep away from heat sources, do not smoke.
Protect from heat.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Storage and container requirements:
Store only in original drums.
Suitable material for containers and pipes: aluminium.
Suitable material for containers and pipelines: ferrous alloys.
Suitable material for containers and pipelines: glass.
Information on mixed storage:
Do not store in contact with oxidising agents.
Store separately from alkalis (salt solutions).
Store separately from acids.
Further information about storage conditions:
Keep containers tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Protect from heat and direct sunlight.
Store container under vacuum.
The product is hygroscopic.
Protect from moisture and water.
Protect from frost.
Maximum storage temperature: < 40 °C
Recommended storage temperature: ~20 °C

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

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

8.2 Exposure controls

Eye protection
Wear safety glasses with side shields according to EN 166. Operate according to good working practices in any case.

Skin protection
No special precautions are required for normal use.

Hand protection
When handling pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3) When handling pure product wear full skin protection clothing (generic/anti-acid work dress, S3-EN ISO 20345 safety shoes) or other protective equipment as directed by the RSPP.

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Respiratory protection
During manual operations in case of inadequate ventilation, use mask with dust filter - White, P (EN 143) unless otherwise specified by RSPP and/or environmental hygiene survey assessments.

Exposure limits
TLV - TWA: not known (5 mg/m3 referred to SO2) (# ACGIH 2003)

Thermal hazards
None.

Environmental exposure controls
None.

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	Solid
Shape	Powder
Color	White
Odor	Not determined
Olfactory threshold	None
Ph value	4.7
CHANGE OF STATE	
Melting point/interval	119-123°C
Boiling point/interval	Not determined
Flash point	Not determined
Flammability (solids, gases)	Not determined
Auto-ignition temperature	Not determined
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	Not determined
Relative density	0.62
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water	Not determined
Specific rotation	Not determined
Partition coefficient: n-octanol/water	1,75
Dynamic Viscosity at 20 °C	Not determined
Kinematic Viscosity	Not determined

9.2 Other information

Molecular mass	122,22
Conductivity	Not determined
Liposolubility	Not determined

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Particular properties groups of substances	
Other Useful Information	None

10. STABILITY AND RESPONSIVENESS

10.1 Responsiveness
Not determined.

10.2 Chemical stability
Stable
Thermal decomposition/ conditions to be avoided:
Stable at room temperature.
Do not heat to avoid thermal decomposition.

10.3 Possibility of dangerous reactions
Polymerisation with heat development.
Reactions with oxidants.
Reactions with acids.
If heated above decomposition temperature, toxic vapours may be released.

10.4 Conditions to be avoided
Humidity
Extremely high temperatures

10.5 Incompatible materials
Strong oxidants
Strong alkalis
Strong acids
Water

10.6 Hazardous decomposition products
Carbon monoxide and carbon dioxide
Toxic gases/vapors
Flammable gases/vapors

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes defined in Regulation (EC) No. 1272/2008
Toxicological information regarding the mixture: the product is not toxic.

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

ATE (mix) oral = ∞
ATE (mix) dermal = ∞
ATE (mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.
(b) corrosion / skin irritation: based on available data the classification criteria are not met.
(c) severe eye injury/irritation: based on available data the classification criteria are not met.
(d) respiratory or skin sensitization: based on available data the classification criteria are not met.

(e) germ cell mutagenicity: based on available data the classification criteria are not met.
(f) carcinogenicity: based on available data the classification criteria are not met.
(g) reproductive toxicity: based on available data the classification criteria are not met.
(h) specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met.
(i) specific target organ toxicity (STOT) repeated exposure: based on available data the classification criteria are not met.
(j) Aspiration hazard: based on available data the classification criteria are not met.

LD/LC50 values relevant for classification:
Ingestion - LD50 rat (mg/kg/24h bw): >11500 mg/kg
Skin contact - LC50 rat/rabbit (mg/kg/24h bw): > 10000, ≥ 56750 mg/kg (Cavia porcellus)
Inhalation - LD50 rat (mg/l/4h): >580

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic toxicity
Not determined
12.2 Persistence and degradability
Biodegradable. Degree of elimination: OECD 301 D 82 % (/) (20d)

12.3 Bioaccumulation potential
Based on the n-octanol/water distribution coefficient, no significant accumulation in organisms is to be expected.

12.4 Mobility in soil
No further information available.
Additional environmental information:
CBS values: 1.16 g O2/g (ISO 15705)
BSB5 values: 0.87 g O2/g
Further indications:
Water hazard class 1 (D) (Classification according to lists): slightly hazardous for water.
Do not allow to enter ground water, water course or sewage system.

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

12.6 Other adverse effects
No further information is available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
PRODUCT
Do not dispose of the product together with household waste. Do not allow to enter drains.
CONTAMINATED PACKAGING
Dispose of in accordance with the constituent material.

13.2 HP Phrases
None

14. TRANSPORTATION INFORMATION

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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
Labelling according to Regulation (EC) No 1272/2008 GHS label elements
National provisions:
Water hazard class:
Water hazard class 1 (Listed classification): slightly hazardous for water.

15.2 Chemical safety assessment
A chemical safety assessment has not been carried out

16. OTHER INFORMATION

This sheet cancels and replaces any previous edition.

The data are given to the best of our current knowledge; however, they do not represent any guarantee of the product characteristics and do not substantiate any contractual legal relationship. The information provided in this document is based on our knowledge of the product in question at the date of compilation and is given in good faith and to the best of our experience. It is not, however, to be interpreted as technical specifications or as guaranteed specific properties.
In no event shall we be liable for damages or consequences of any kind, whether direct or indirect, resulting from the use of this information.
Compliance with all current and applicable laws, regulations and directives is the responsibility of the recipient and user of the product. They should also make their own determinations.
The suitability of the product for particular uses or applications.

Emergency Numbers
European Emergency Number: 112