

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Jungbunzlauer

ERYLITE® Stevia

Version .0

Revision Date 00.00.0000

Print Date 09.03.2011

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : ERYLITE® Stevia
Substance name : Erythritol, Rebaudioside A
Molecular formula : C4-H10-O4,C44-H70-O23
Chemical identity : 1,2,3,4 Tetrahydroxybutane, β -D-glucopyranosyl ester

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

Use of the Sub-
stance/Mixture : Food additive

1.3 Details of the supplier of the safety data sheet

Company : Jungbunzlauer S.A.
Z.I. Portuaire
BP 32
67390 Marckolsheim
France
www.jungbunzlauer.com

Telephone : +33 388 582-929
Telefax : +33 388 582-941
E-mail address : msds@jungbunzlauer.com

1.4 Emergency telephone number

Telephone : +33 388 582-929

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Additional advice:

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

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3. Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Chemical nature : Solid

Substance name	CAS-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Erythritol	149-32-6			>= 99
Rebaudioside A	58543-16-1			<= 1

4. First aid measures

4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.
Get medical advice/ attention if you feel unwell.
- If inhaled : If breathed in, move person into fresh air.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
If skin irritation persists, call a physician.
- In case of eye contact : Remove contact lenses.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water
Water spray
Foam

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products formed under fire conditions.
Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Use personal protective equipment.
Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Avoid contact with skin, eyes and clothing.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.
Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.
After cleaning, flush away traces with water.

6.4 Reference to other sections

No conditions to be specially mentioned.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust.
Do not breathe dust.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : St1

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7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
- Further information on storage conditions : Do not store at temperatures above 30 °C / 86 °F. Protect from moisture.
- Advice on common storage : Incompatible with strong bases and oxidizing agents.
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end uses

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not breathe dust.
Avoid contact with the skin and the eyes.

Environmental exposure controls

- General advice : No special environmental precautions required.
Prevent further leakage or spillage if safe to do so.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder crystalline
Colour	: white colourless
Odour	: none
pH	: 4 - 7
Melting point/range	: 122 °C
Boiling point/boiling range	: 329 - 331 °C
Bulk density	: 700 - 900 kg/m ³
Water solubility	: ca. 600 g/l at 25 °C soluble
Solubility in other solvents	: at 25 °C Medium: Ethanol slightly soluble

9.2 Other information

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : Strong bases
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition : Stable under recommended storage conditions.

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products

Thermal decomposition can lead to release of irritating gases and vapours.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (other routes of administration)

Erythritol : 2.000 mg/kg
Species: mouse

Skin corrosion/irritation

Skin irritation

Erythritol : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Eye irritation

Erythritol : May irritate eyes.

Respiratory or skin sensitization

Sensitisation

Erythritol : no data available

Germ cell mutagenicity

Assessment

Erythritol : Not mutagenic in Ames Test.

Carcinogenicity

Assessment

Erythritol : Not classifiable as a human carcinogen.

Reproductive toxicity

Assessment

Erythritol : Animal testing did not show any effects on fertility.

Teratogenicity

Remarks

Erythritol : Animal testing did not show any effects on foetal development.

Target Organ Systemic Toxicant - Repeated exposure

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12. Ecological information**12.1 Toxicity****Ecotoxicology Assessment**

Toxicity Data on Soil

Erythritol : Not expected to adsorb on soil.

12.2 Persistence and degradability

Biodegradability

Erythritol : Result: Readily biodegradable.
Method: OECD Test Guideline 301D

Biochemical Oxygen Demand (BOD)

Erythritol : 329 mg/g
5 Days

Chemical Oxygen Demand (COD)

Erythritol : 1.120 mg/g

12.3 Bioaccumulative potential

Bioaccumulation

Erythritol : Bioaccumulation is unlikely.

12.4 Mobility in soil

Distribution among environmental compartments

Erythritol : no data available

12.5 Results of PBT and vPvB assessment

Erythritol : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Additional ecological information

Erythritol : no data available

13. Disposal considerations**13.1 Waste treatment methods**

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- Product : Where possible recycling is preferred to disposal or incineration.
In accordance with local and national regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user based on the application for which the product was used.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Dispose of as unused product.

14. Transport information

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

15. Regulatory information

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

15.2 Chemical Safety Assessment

16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.