

2235 – ISOMALT

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/01/2015 Version: 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : 2235 – Isomalt
CAS Number : 64519-82-0

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

Use of the substance/mixture : Food industry: component

1.3. Details of the supplier of the safety data sheet

LorAnn Oils, Inc.
4518 Aurelius Road
Lansing, MI 48910
Telephone: 1.800.862.8620

1.4. Emergency telephone number

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

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

Since the substance or preparation doesn't meet the criteria of Article 31 of the REGULATION (EC) No 1907-2006 (REACH), a Safety Data Sheet is legally not required.

Dust may form explosive mixture in air.

SECTION 3: Composition/information on ingredients :

3.1. Substances

Synonyms : Hydrogenated Isomaltulose, hydrogenated Palatinose, Palatinit®
Chemical nature : Mixture of hydrogenated mono- and disaccharides, of this >= 86% alpha-D-glycopyranosyl-1, 6-D-sorbitol (1,6-GPS) and alpha-D-glycopyranosyl-1, 1-D-mannitol (1,1-GPM)
Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : The product is not toxic.
If inhaled : Fresh air. If symptoms persist, call a physician.
In case of skin contact : Wash off with plenty of water.
In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
If swallowed : If symptoms persist, call a physician.

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 : Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, sand

5.2. Special hazards arising from the substance or mixture

Combustible material. Risk of dust explosion. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing dust

6.2. Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up dry (mechanical). Forward for disposal. Clean up affected area. Avoid dust formation.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Avoid dust formation. Do not breathe dust.

Advice on protection against fire and explosion : Take precautions against dust explosion. Keep workplaces clean, avoid dust accumulation. Keep away from sources of ignition – No smoking. Observe explosion protection regulations!

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in a dry place. Store at room temperature.

7.3. Specific end use(s)

: This information is not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Personal protective equipment

Respiratory protection : Respirator must be worn if exposed to dust.

Suitable mask with particle filter P1 (EN 143)

Hand protection : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses (in case of dust exposure)

Hygiene measures : Wash hands before breaks and at the end of workday.

Protective measures : Do not breathe dust. When using do not smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Crystalline, powder, granular

Color : Off white

Odor : Nearly odourless (slight product specific odour, sweetish)

pH (100,0 g/l) : Ca. 3,5 – 6,0 (at 20°C)

Flash point : No data available

Ignition temperature : >= 420°C

Lower explosion limit	: Dust may form explosive mixture in air. 60g/m ³ (grainsize: 90 % < 50 µm)
Upper explosion limit	: No data available
Minimum ignition energy	: Median - MIE 190 µm - 100 – 300 mJ 370 µm - 300 – 1000 mJ
Auto-ignition temperature	: Not applicable
Melting point/range	: Ca. 140 - 165°C
Boiling point/boiling range	: No data available
Bulk density	: Ca. 320 – 920 kg/m ³ Depending on particle size
Water solubility	: Ca. 270 – 485 g/l (at 20°C)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Like most organic material in powder form, the product can form explosive dust-air mixtures when finely dispersed in air.

10.4. Conditions to avoid

Strong heating (decomposition).

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute oral toxicity	: LD 50 Oral – No data available
Skin irritation	: No skin irritation
Eye irritation	: No eye irritation Mechanical irritation of the eyes is possible
Sensitisation	: No sensitizing effects known
Target Organ Systemic Toxicant – Single Exposure	: The substance or mixture is not classified as specific target organ toxicant, single exposure
Target Organ Systemic Toxicant – Repeated Exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure
Further information	: The product is an evaluated and as safe classified food additive (E953). By the responsible « Joint Expert Committee on Food Additives » (JECFA, an advisory body of WHO/FAO) an ADI (acceptable daily intake for man) for ISOMALT was not established (ADI : « not specified »). ADI « not specified » means that, on the basis of the available data (chemical, biochemical, toxicological, and other) the intake of the substance arising from its use (at the levels necessary to achieve the desired effect) does not represent a hazard to health.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish	: LC50 : no data available
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12.2. Persistence and degradability

Biodegradability : Anaerobic degradability: >90 % (COD)

12.3. Bioaccumulative potential

Bioaccumulation : No data available

12.4. Mobility in soil

Mobility : No data available

12.5. Results of PBT and vPvB assessment

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

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional ecological information : We have no quantitative data concerning the ecological effects of this product. Ecological injuries are not known or expected under normal use.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with local regulations.

Product in solid state can be disposed e.g. as commercial waste.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

SECTION 15: Regulatory information

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

Major Accident Hazard Legislation : Not covered by the German StörfallV.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Other information : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.