

LACTITOL MONOHYDRATE
Food gradeRevision Date 02/01/2007
Ref. SD870/2007-01**1. IDENTIFICATION OF THE
SUBSTANCE /
PREPARATION
AND THE
COMPANY /
UNDERTAKING**

Product name	LACTY [®] -M / M200 / MFP
Use of the substance	Food additive
Supplier	PURAC biochem Arkelsedijk 46 NL-4206 AC Gorinchem The Netherlands
Telephone	+31 183 695695
Fax	+31 183 695606
Emergency telephone	+31 183 695695

**2. COMPOSITION /
INFORMATION ON
INGREDIENTS**

Chemical name of the substance	4-O-(β-galactosyl)-D-glucitol
Synonyms	Lactitol D-Glucitol, 4-O-Beta-galactopyranosyl,
EC-No. 209-566-5	CAS-No. 585-86-4
Hazardous impurities	None.

3. HAZARDS IDENTIFICATION

Most important hazards
Health injuries are not known or expected under normal use.
No special environmental precautions required.

LACTITOL MONOHYDRATE
Food grade

Revision Date 02/01/2007
Ref. SD870/2007-01

4. FIRST AID MEASURES

General advice

Immediate medical attention is not required.
Show this safety data sheet to the doctor in attendance.

Inhalation

Drink water.

Skin contact

Rinse with water.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion

Drink 1 or 2 glasses of water.

Protection of first-aiders

No hazards which require special first aid measures.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water.

Extinguishing media which must not be used for safety reasons

None.

Specific hazards

None.

Special protective equipment for firefighters

None.

Specific methods

Standard procedure for chemical fires.

LACTITOL MONOHYDRATE
Food grade

Revision Date 02/01/2007
Ref. SD870/2007-01

**6. ACCIDENTAL RELEASE
MEASURES**

Personal precautions
General industrial hygiene practice.

Environmental precautions
Prevent further leakage or spillage.
No special environmental precautions required.

Methods for cleaning up
Flush with water.

7. HANDLING AND STORAGE

Handling
Technical measures/Precautions
No special technical protective measures required.

Safe handling advice
Handle in accordance with good industrial hygiene and safety practice.

Storage
Technical measures/Storage conditions
Keep in a dry place. Keep container tightly closed. Store at room temperature.

**8. EXPOSURE CONTROLS /
PERSONAL PROTECTION**

Engineering measures to reduce exposure
Ensure adequate ventilation, especially in confined areas.

Control parameters
None.

Personal protection equipment
No special protective equipment required.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.

LACTITOL MONOHYDRATE
Food gradeRevision Date 02/01/2007
Ref. SD870/2007-01**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	crystalline
Colour	white / light brown
Odour	none
pH	4.5 - 7.0 (10% aqueous solution)
Melting point/range	208-216° F (98 -102°C) (DSC)
Decomposition temperature	no data available
Flash point	> 212° F (100°C) (closed cup)
# Explosion limits	explosion class S1
Bulk density	0.6-0.8 kg/dm ³
Solubility	Water solubility: 150-160g/100g @77° F (25°C)

10. STABILITY AND REACTIVITY

Stability
Stable at normal conditions. Hazardous polymerization does not occur.

Materials to avoid
None.

Hazardous decomposition products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50/oral/rat > 10g/kg.

Long term toxicity
A two-year oral feeding study (10%) on mice showed neither carcinogenic nor toxic effects.

Further information
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

LACTITOL MONOHYDRATE
Food gradeRevision Date 02/01/2007
Ref. SD870/2007-01**12. ECOLOGICAL
INFORMATION****Mobility**

Soluble.

Persistence / degradability

Readily biodegradable, according to appropriate OECD test.
Biochemical oxygen demand within 5 days (BOD5) = 550 mg/g.
Chemical oxygen demand (COD) = 955 mg/g.

Bioaccumulation

Unlikely.

Ecotoxicity

None (Poecilia Reticulata, Daphnia). Ecological injuries are not known or expected under normal use.

**13. DISPOSAL
CONSIDERATIONS****Waste from residues / unused products**

Can be disposed as waste water, when in compliance with local regulations.
Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging

Clean container with water.
Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT
INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY
INFORMATION**

The product does not need to be labelled in accordance with EC directives or respective national laws.

EEC Food additive: E 966.

16. OTHER INFORMATION

This information only concerns the above mentioned product and is not valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Indicates updated section.