



SAFETY DATA SHEET

Material name:	LipoSan Ultra®
Doc. Name:	SDS-LIPOSAN ULTRA
Version no. and date prepared	7 / 2016-08-09
Replaces:	6 / 2015-11-30
Approved by:	Guðný Helga Kristjánsdóttir

This safety datasheet complies with the requirements of Regulation 1907/2006/EC (REACH)

SECTION 1: Identification of the mixture and of the company

1.1 Product identifier

Substance name: Chitosan 90% minimum
CAS No.: 9012-76-4
Substance name: Succinic acid 5-10%
CAS No: 110-15-6
Product number: 54000
REACH Registration No: Exempted from registration
Trade name: LipoSan Ultra®

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

Weight management, fat binder.

1.3 Details of the supplier of the safety data sheet

Company: Primex ehf
Oskarsgata 7
580-Siglufjordur, Iceland

SECTION 2: Hazards identification

2.1. Classification of the mixture:

Chitosan is not a hazardous substance according to Regulation (EC) No. 1272/2008. Other component is listed in section 3.

2.2 Label elements

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

2.3 Other hazards

EYE: Powder may cause irritation. Treat powder in eye as foreign object. Seek medical help if irritation

SKIN: Wash with plenty of water. Possible skin irritation or rash. Seek medical help if irritation or rash persists.

INHALATION: Powder may aggravate pre-existing respiratory conditions or allergies. May accumulate on linings of the nose and lungs resulting in dryness and coughing. Get medical help if persistent irritation or breathing difficulties occur

INGESTION: Not likely to be hazardous if ingested.



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CARCINOGENICITY: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen

SECTION 3. Composition/information on ingredients

3.1 Substances

Substance name:	Chitosan
CAS No:	9012-76-4
Synonyms:	Poly(D-glucosamine), beta-(1-4)-2-amino-2-deoxy-D-glucose, Deacetylated chitin
Substance name:	Succinic acid
CAS No:	110-15-6
Synonyms:	1,4-Butanedioic acid

Not Hazardous Ingredient			
Chemical name	Classification	Concentration (%)	
Chitosan			
CAS No. 9012-76-4	Not Classified	> 90 %	
Hazardous Ingredients according to Regulation (EC) No 1272/2008			
Chemical name	Classification	Concentration (%)	
Succinic acid			
CAS No. 110-15-6	EC No. 203-740-4	Eye Dam. 1; H318	5 - 10 %
Hazardous ingredients according to Directive 1999/45/EC			
Chemical name	Classification	Concentration (%)	
Succinic acid			
CAS No. 110-15-6	EC No. 203-740-4	Xi, R41	5 - 10 %

SECTION 4: First aid measures

4.1 Description of first aid measures

- 4.1.1 General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- 4.1.2 Following inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- 4.1.3 Following skin contact:** Wash with plenty of water. Seek medical help if irritation or rash persists.
- 4.1.4 Following eye contact:** Flush eyes with plenty of water for at least 15 minutes and consult a physician.
- 4.1.5 Following ingestion:** Not likely to be hazardous if ingested.

4.2 Most important symptoms and effects, both acute and delayed



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The most important known symptoms and effects are described in section 11. There is no known effect from chronic exposure to this product.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Water, fog or stream; dry chemicals, carbon dioxide, sand or foam.

5.2 Special hazards arising from the mixture

Keep away from oxidizing agents and avoid open flames. Product may ignite at temperatures in excess of 400° F. Depending on moisture content and particle size, airborne dust of LipoSan Ultra® might explode in the presence of an ignition source. It is comparable to flour and wood dust.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

5.4 Additional information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions:

Prevent further leakage or spillage. The material may be vacuumed or collected for recovery or disposal.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Land disposal is acceptable. The material is biodegradable. Dispose according to federal, state & local regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling



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Provide appropriate exhaust ventilation at places where dust is formed. For precaution see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place away from open flames and strong oxidizing agents. Keep container tightly closed in a dry, well-ventilated place.

7.3 Specific end uses:

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Good hygiene practices should be strictly followed. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Before eating, drinking or smoking, wash face and hands thoroughly. Clean areas where LipoSan Ultra® dust settles to avoid excessive accumulation of this combustible material.

8.2 Exposure controls

Appropriate engineering controls

Showers and eyewash facilities should be accessible. Mechanical exhaust required.

Personal protective equipment

Eye/face protection

Goggles are recommended when there is a high level of airborne dust.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Gloves are not required, but their use should be based on the task being performed and the risk involved. However, cloth or plastic gloves are recommended to minimize potential mechanical irritation.


Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risk involved.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN 143) dust mask. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

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Prevent further leakage or spillage.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Powder Colour: Off-white to yellowish
b)	Odour	Odourless
c)	Odour Threshold	no data available
d)	pH	pH 6-7
e)	Melting and freezing point	no data available
f)	Initial boiling point and range	no data available
g)	Flash point	no data available
h)	Evaporation	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapor pressure	no data available
l)	Vapor density	no data available
m)	Relative density	no data available
n)	Water solubility	insoluble; soluble in dilute organic acids
o)	Partition coefficient: n-octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under ordinary conditions of use and storage.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid:



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No data available

10.5 Incompatible materials:

Strong oxidizing agents

10.6 Hazardous decomposition products:

Other decomposition products – no data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD₅₀ Oral – rat - > 1500 mg/kg (as chitosan)

LD₅₀ Oral – mouse - > 16000 mg/kg (as chitosan)

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0,1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Aspiration Information

No data available

Additional Information

RTECS: Not available



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SECTION 12: Ecological information

12.1 Toxicity:

N/A

12.2 Persistence and degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

N/A

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

N/A

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

State and local regulations may differ from federal regulations. Dispose of containers and unused contents in accordance with all applicable federal, state, and local regulations.

Contaminated packaging

Dispose of as unused product

SECTION 14: Transport information

ADR/RID: Not dangerous goods and not regulated

DOT (US): Not dangerous goods and not regulated

IMDG: Not dangerous goods and not regulated


IATA: Not dangerous goods and not regulated

Dot proper shipping name: Chitosan

Environmental hazards: No

Special precautions for user: No data available

SECTION 15: Regulatory information

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15.1 Safety, health and environmental regulations/legislation specific for the mixture
No data available

15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information

The above information is based upon information Primex ehf. believes to be reliable and is supplied for informational purposes only. Primex ehf. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to Primex ehf. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.