

Safety data sheet

Lab-Sorb™

Revision date : 10/08/2010

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Version: 1.0

1. Substance/preparation and company identification

Company

Diversified Biotech
65 Commerce Way
Dedham, MA 02026

Customer Service Contact Information

Tel: 1-800-796-9199
Fax: 1-781-326-5611

Chemical family: crosslinked, sodium polyacrylate

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
7732-18-5	80.0 - 100.0 %	NJTS 50423NLD
	1.0 - 5.0 %	Water

3. Hazard identification

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Irritation:

Ingestion may cause irritation of the gastrointestinal tract. Contact with powders or dusts may irritate the eyes, skin and respiratory tract.

4. First-aid measures

General advice:

Remove contaminated clothing.

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If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Assist in breathing if necessary.

If on skin:

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:

water spray, dry extinguishing media, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide, water jet

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Personal precautions:

Breathing protection required. Avoid dust formation.

Cleanup:

Spills should be contained and placed in suitable containers for disposal.

Further information:

Forms slippery surfaces with water.

7. Handling and storage

Handling

General advice:

Handle in accordance with good industrial hygiene and safety practice.

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid the formation and deposition of dust.

Protection against fire and explosion:

The product is capable of dust explosion. Avoid all sources of ignition: heat, sparks, open flame.

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Storage

General advice:

Keep container dry because product takes up the humidity of air.

Keep container tightly closed and dry; store in a cool place.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles).

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. Physical and chemical properties

Form:	granules	
Odour:	odourless	
Colour:	white	
pH value:	approx. 6.0	
Solubility in water:		insoluble, only capable of swelling

10. Stability and reactivity

Hazardous reactions:

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Dust explosion hazard.

The product is stable if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, hydrocarbons

11. Toxicological information

Acute toxicity

Oral:

LD50/rat: > 2,000 mg/kg

Dermal:

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (OECD Guideline 404)

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Eye irritation :
rabbit: non-irritant (OECD Guideline 405)

Sensitization:
No sensitizing effect.

Chronic toxicity

Carcinogenicity:
A chronic (2-year) lifetime inhalation study in rats with respirable superabsorber polymer dust (micronized to < 10 µm diameter) resulted in a non-specific inflammatory response in the lungs followed by tumor development in some rats in the highest chronic exposure level of 0.8 mg/m³.
In the absence of chronic inflammation, tumours are not expected.

Other information:
The statement was derived from products of similar composition.

12. Ecological information

Environmental fate and transport

Biodegradation:
Evaluation: The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

Bioaccumulation:
Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

Environmental toxicity

Acute and prolonged toxicity to fish:
OECD Guideline 203 static
zebra fish/LC50 (96 h): > 100 mg/l

Acute toxicity to aquatic invertebrates:
OECD Guideline 202, part 1 static
Daphnia magna/EC50 (48 h): > 100 mg/l

Toxicity to aquatic plants:
OECD Guideline 201 green algae/EC50 (72 h): > 100 mg/l
Nominal concentration.

Toxicity to microorganisms:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to soil dwelling organisms:
OECD Guideline 207 Eisenia foetida/LC50: > 1,000 mg/kg

Other ecotoxicological advice:
Do not release untreated into natural waters. The ecotoxic effect of the product has not been tested. The information on this was derived from products of similar structure or composition.

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13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with local authority regulations.

Incinerate in a licensed facility.

Do not incinerate closed containers.

Do not discharge into drains/surface waters/groundwater.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US

released / listed

OSHA hazard category:

Chronic target organ effects reported

SARA hazard categories (EPCRA 311/312):

Chronic

State regulations

State RTK

CAS Number

7732-18-5

Chemical name

NJTS 50423NLD

Water

State RTK

NJ, PA, MA

NJ, PA, MA

16. Other information

HMIS III rating

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Health: 1 α Flammability: 0 Physical hazard: 0

HMS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.
