



DIVERSIFIED BIOTECH INC.

Safety Data Sheet Lab-Sorb™

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

1.1 Product identifier

Product name	Lab-Sorb™
Product number	SORB-1000

1.3 Details of the supplier of the safety data sheet

Name	Diversified Biotech Inc.
Address	65 Commerce Way Dedham, MA 02026 USA
Telephone	781-326-6709
Fax	781-326-5611

SECTION 2: Hazards identification

General hazard statement

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

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Statement regarding ingredients of unknown toxicity (OSHA)

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

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1. Water

Concentration 1 - 5 %
CAS no. 7732-18-5

2. NJTS 50423 NLD - crosslinked, sodium polyacrylate

Concentration 80 - 100 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes	Remove contaminated clothing. Treat according to symptoms (decontamination, vital functions), no known specific antidote.
Following inhalation	Keep patient calm, remove to fresh air, seek medical attention. Assist in breathing if necessary.
Following skin contact	Wash thoroughly with soap and water. If irritation develops, seek medical attention.
Following eye contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.
Following ingestion	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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

water spray, dry extinguishing media, foam

5.3 Advice for firefighters

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

Further information

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Breathing protection required. Avoid dust formation.

6.2 Environmental precautions

Forms slippery surfaces with water.

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6.3 Methods and material for containment and cleaning up

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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.

7.2 Conditions for safe storage, including any incompatibilities

Keep container dry because product takes up the humidity of air.
Keep container tightly closed and dry; store in a cool place.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protection equipment

Eye and face protection

Tightly fitting safety goggles (chemical goggles).

Skin protection

Chemical resistant protective gloves

Body protection

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

Respiratory protection

Breathing protection if dusts are formed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	granules, white
Odour	odorless
Odour threshold	
pH	6.0
Melting point / freezing point	
Initial boiling point and boiling range	
Flash point	

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Evaporation rate
Flammability (solid, gas)
Upper/lower flammability limits
Upper/lower explosive limits
Vapour pressure
Vapour density
Relative density
Solubilit(ies)
Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidising properties

insoluble, only capable of swelling

SECTION 10: Stability and reactivity

10.1 Reactivity

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.

10.6 Hazardous decomposition products

carbon monoxide, carbon dioxide, hydrocarbons

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: LD50/rat: > 2,000 mg/kg

Dermal: LD50/rat: > 2,000 mg/kg

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation

rabbit: non-irritant (OECD Guideline 405)

Respiratory or skin sensitization

No sensitizing effect.

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.

Additional information

The statement was derived from products of similar composition.

SECTION 12: Ecological information

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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.

12.6 Other adverse effects

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal of the product

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.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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SECTION 15: Regulatory information

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

Toxic Substances Control Act (TSCA) Inventory
released/listed

SARA 311/312 Hazards
chronic

Massachusetts Right To Know Components
NJTS 50423 NLD / Water

New Jersey Right To Know Components
NJTS 50423 NLD / Water

Pennsylvania Right To Know Components
NJTS 50423 NLD / Water

HMIS Rating

Lab-Sorb™	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

SECTION 16: Other information