

Safety Data Sheet

Dextran Sulfate Sodium (DSS) for Colitis

Version 9.0 Revision date 2025-09-23
SDS on the basis of Regulation (EC) No. 1907/2006

Section 1. Product Identification

Product name:	Dextran sulfate sodium (DSS) for colitis
Chemical name:	Dextran, hydrogen sulfate, sodium salt
Catalogue no.	DB001
CAS no.	9011-18-1
Mol. Formula:	N/A
Manufacturer:	TdB Labs AB, Ulls väg 37, 756 51 Uppsala, SWEDEN Tel: +46 (0)730608200

Section 2. Hazards Identification

Classification of the substance	Not a hazardous substance
Label elements	Caution- substance not yet tested completely.

Section 3. Composition/Information on ingredients

Chemical family:	Polysaccharide derivative
Appearance/odour:	White to off-white powder, no distinctive odour
Melting point:	Decomposes on heating
Solubility:	Freely soluble in water
Molecular weight:	Approx. 40000 Dalton

Section 4. First-aid Procedures

Inhalation:	Remove exposed person to fresh air. Get medical attention.
Eyes:	Wash thoroughly with water for 15 minutes. Get medical attention.
Skin:	Wash off with soap and water.
Ingestion:	Rinse mouth with water and give water to drink. No treatment required if only small amount.

Section 5. Fire-fighting Measures

Extinguishing media:	Carbon dioxide, dry chemicals or water
Special fire-fighting procedures:	Use media appropriate for primary cause of fire.

Safety Data Sheet

Dextran Sulfate Sodium (DSS) for Colitis

Section 6. Accidental Release Measures

Action in event of spill: Collect material taking precautions to minimize dust.
Use wet mop.
Place collected material in suitable container for disposal. Flush area with water and drain into sewer.
Floor may become slippery.

Section 7. Handling and storage

Precautions to be taken when handling: Protect from dust. Use approved facemask and protective clothes. Wear safety glasses. In case of severe and repeated exposure follow recommendations of local safety officer. Store in tight dark container.

Section 8. Exposure Controls/Personal Protection

Exposure limit: Not established
Special personal protective equipment: Use suitable protective clothing
Respiratory: Use approved face mask.
Eyes: Use safety goggles.
Gloves: Use plastic gloves

Section 9. Physical and Chemical Properties

General information:
Appearance: White to off-white powder, No distinctive odour
pH: 6.0-7.5
Vapour pressure: N/A
Relative density: N/A
Melting point: Decomposes with charring
Molecular weight: Approx. 40000 Dalton
Flash point: N/A
Fat Solubility: Not soluble
Solubility in water: > 50 % by weight

Section 10. Stability and Reactivity

Stability (normal conditions): Stable for more than 6 years when stored dry in well-sealed containers at ambient temperature.
Conditions to avoid: High humidity; high temperature (> 60°C).
Incompatibility: Avoid contact with oxidizing agent (e.g. nitric acid, permanganates)
Hazardous decomposition products: Thermal decomposition may yield oxides of carbon and sulfur.

Section 11. Toxicological information

General information: The substance is a polyanion and possesses many biological activities in vivo. However, since it is poorly absorbed by the skin no toxic effects are expected under normal operating conditions provided the recommended precautions are followed.

Acute toxicity:

1. Inhalation: The material should be handled as a potential irritant and long term or repeated exposure to dust prevented.
2. Skin/Eye contact: No published information. However, dextran sulphate is an ingredient of several cosmetics products and is therefore assumed harmless.

Long term: No data available on carcinogenicity, mutagenicity or teratogenicity.

Routes of entry:

Inhalation

Effects of occupational over exposure:

No information on the toxicity after inhalation.

Most dust will produce irritation, inflammation or toxic symptoms on prolonged inhalation.

Eye contact

No information available on eye exposure.

Skin contact

Dermal absorption not known but presumably nil.

Ingestion

LD50 mice 2500 mg/kg oral ingestion.

Section 12. Ecological information

No information available. However, Dextran itself is biodegradable.

Section 13. Disposal Recommendations

Collect material taking precautions to minimize dust. Use wet mop. Place collected material in suitable container for disposal. Flush area with water and drain into sewer. Large quantities may be incinerated.

Section 14. Transport information

EEC:

Not listed

Dangerous goods:

Not restricted

EINECS:

Not listed

Section 15. Regulatory information

P261

Avoid breathing dust.

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves/clothing/eye protection/ face protection.

P284

Wear respiratory protection.

P302 + P352

IF ON SKIN: Wash with plenty of water.

Safety Data Sheet

Dextran Sulfate Sodium (DSS) for Colitis

P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P305 + P338	IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P301 + P351	IF SWALLOWED: Rinse cautiously with water for several minutes.
P342 + P340 + P313	If experiencing respiratory symptoms: Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention.
P402 + P404	Store in a dry place. Store in a closed container
P232 + P233	Protect from moisture. Keep container tightly closed.

Section 16. Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TdB Labs AB shall not be held liable for any damage resulting from handling or from contact with the above product.