# Safety Data Sheet
# Blue dextran

Version 4.0 Revision date 2019-11-12

**Section 1. Product Identification**

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|---|---|
| Product name: | Blue dextran |
| Chemical name: | Dextran, 4—[4-[4-amino-9,10-dihydro-9,10-dioxo-3-sulfo-1-anthraceneyl)amino]-2-sulfophenyl]amino]-6-[[3(or 4)-sulfophenyl]amino]-1,3,5-triazin-2-yl ether, trisodium salt |
| Catalogue no. | BD5, BD10,BD20, BD40, BD70, BD110, BD500, BD2000 |
| CAS no. | 87915-38-6 |
| Mol. Formula: | N/A |
| Manufacturer: | TdB Labs AB, Virdings Allé 22, 754 50 Uppsala, SWEDEN<br>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**

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| Chemical family: | Polysaccharide derivative |
| Appearance/odour: | Blue powder, no distinctive odour |
| Melting point: | Decomposes on heating |
| Solubility: | Slowly soluble in water |
| Molecular weight: | 5000-2 million Dalton |

**Section 4. First-aid Procedures**

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|---|---|
| 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**

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

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**Section 6. Accidental Release Measures**

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

**Section 7. Handling and storage**

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| 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**

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| 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**

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|---|---|
| General information | |
| Appearance: | Blue 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. 5000-2 million Dalton |
| Flash point: | N/A |
| Fat Solubility: | Not soluble |
| Solubility in water: | > 50 % by weight |

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**Section 10. Stability and Reactivity**

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|---|---|
| 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 very small amounts of oxides of nitrogen and sulfur. |

**Section 11. Toxicological information**

General information: The substance is a weak polyanion and possesses many biological activities in vivo. However, since it is not 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.

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

| Routes of entry: | Effects of occupational over exposure: |
|---|---|
| Inhalation | 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: | No information of toxicity available. |

**Section 12. Ecological information**

No information available. However, Dextran itself is biodegradable and blue dextran may be used to detect dextranases.

**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**

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| EEC: | Not listed |
| Dangerous goods: | Not restricted |
| EINECS: | Not listed |

**Section 15. Regulatory information**

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| P261: | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |

**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.