spectrum[®]



SAFETY DATA SHEET

Preparation Date: 4/29/2015

Revision Date: 7/12/2017

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: Product Name: D1179 Dextran, 4000, powder

Other means of identification Synonyms: CAS #: **RTECS #** CI#:

No information available 9004-54-0 Not available Not available

Recommended use of the chemical and restrictions on use

No information available. Recommended use: Uses advised against No information available Supplier: Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000. https://www.spectrumchemical.com Order Online At: Chemtrec 1-800-424-9300 Emergency telephone number Contact Person: Martin LaBenz (West Coast) Ibad Tirmiz (East Coast) Contact Person:

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Combustible dust

Label elements

Warning

May form combustible dust concentrations in air

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

Precautionary Statements - Prevention Keep away from all ignition sources including heat, sparks, and flame

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Dextran, 4000	9004-54-0	100

4. FIRST AID MEASURES				
First aid measures				
General Advice:		n Center in the United States can provide assistance if you ency and need to talk to a poison specialist. Call		
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.			
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.			
Inhalation: Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breat oxygen. Get medical attention.				
Ingestion:		vithout medical advice. Never give anything by mouth to an nsult a physician if necessary.		
Most important symptoms and effe	cts, both acute and delay	/ed		
Symptoms	May cause eye/skin irrita	ition.		
Indication of any immediate medica	al attention and special tr	reatment needed		
Notes to Physician:	Treat symptomatically.			
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment		ar gloves and other necessary protective clothing. Dispose of		
	5. FIRE-FIGHT	ING MEASURES		
Extinguishing Media Suitable Extinguishing Media:		Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.		
Unsuitable Extinguishing Media	:	No information available.		
Specific hazards arising fron	n the chemical			
Hazardous Combustion Produc	ts:	Carbon monoxide; Carbon dioxide		
Hazardous Combustion Produc	ts:	No information available.		
Specific hazards:		May be combustible at high temperatures. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is		

a potential dust explosion hazard.

Special Protective Actions for Firefighters

Specific Methods:

Special Protective Equipment for Firefighters:

No information available.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,
eyes and clothing. Remove all sources of ignition. Avoid dust formation. Avoid dispersal of
dust in the air. Dust deposits should not be allowed to accumulate on surfaces, as these
may form an explosive mixture if they are released into the atmosphere in sufficient
concentration. Nonsparking tools should be used.Environmental precautionsNo information available.Methods and material for containment and cleaning upMethods for containmentMethods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent
spreading.Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated
surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Minimize dust generation and accumulation. Avoid dust formation. Dry powders can build static electricity charges when subjected to friction of transfer and mixing operations. All equipment used when handling the product must be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Product code: D1179

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Dextran, 4000	9004-54-0	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Dextran, 4000	9004-54-0	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Dextran, 4000	9004-54-0	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment) It is recommended that all dust control equipment such as local exhause ventilation and material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Safety glasses Safety glasses with side-shields
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Wear respirator with dust filter.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance:	Color:
Solid	Powder.	White. Off-white.
Odor:	Taste	Formula:
Slight. Phenolic.	No information available.	No information available
Molecular/Formula weight:	Flammability:	Flashpoint (°C/°F):
Av. M.W. 4,000	No information available	No information available.
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	

Product code: D1179

Product name: Dextran, 4000, powder

Not available	Not	avai	lable
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Upper Explosion Limit (%): No information available

Boiling point/range(°C/°F): No information available

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available No information available

Melting point/range(°C/°F): No information available

Bulk density: No information available

pH: pH of a 10% solution: 4.5-7.0

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: Soluble in Water Lower Explosion Limit (%): No information available

Decomposition temperature(°C/°F): No information available

Density (g/cm3): No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Reactivity	
Reactive with oxidizing a	agents

Chemical stability	
Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	s: Hazardous polymerization does not occur
Conditions to avoid:	Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.
Incompatible Materials:	Oxidizing agents
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

Acute Toxicity

Component Information

Dextran, 4000

CAS-No.	9004-54-0
LD50/oral/rat = > 3 g/kg Or	
LD50/oral/mouse = >12000 LD50/dermal/rabbit = No in	
LD50/dermal/rat = No infor	
LC50/inhalation/rat = No in LC50/inhalation/mouse =	
	ation = No information available
Product Information	
LD50/oral/rat = VALUE- Acute Tox Oral = > 3	3000 mg/kg
LD50/oral/mouse = Value - Acute Tox Oral = >120	000 mg/kg
LD50/dermal/rabbit VALUE-Acute Tox Dermal = N	No information available
LD50/dermal/rat VALUE -Acute Tox Dermal =	No information available
LC50/inhalation/rat	
VALUE-Vapor = No informatio VALUE-Gas = No information a	
VALUE-Dust/Mist = No inform	
LC50/Inhalation/mouse	
VALUE-Vapor = No informatio	
VALUE - Gas = No information VALUE - Dust/Mist = No inform	
Symptoms	
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Health injuries are not known or expected under normal use. May cause digestive (gastointestinal) tract irritation. Expected low hazard.
Aspiration hazard	No information available.
Delayed and immediate effect	s as well as chronic effects from short and long-term exposure_
Chronic Toxicity	No information available.
Sensitization:	No information available.
Mutagenic Effects:	No information available
Carcinogenic effects:	Not considered carcinogenic.
Components CAS-N	No. IARC ACGIH - NTP OSHA HCS - Australia - Australia -

						Substances
Dextran, 4000 9004	I-54-0 Not lis	sted Not list	ted Not liste	d Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available

Bioaccumulative potential.	NO INFORMATION AVAILABLE.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Dextran, 4000	9004-54-0	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available

Number Marine Pollutant DOT RQ (lbs): **Special Provisions** Symbol(s): Description:

TDG (Canada)

UN-No: **Proper Shipping Name: Hazard Class:** Subsidiary Risk: Packing Group: Marine Pollutant **Description:**

ADR

UN-No: **Proper Shipping Name:** Hazard Class: Packing Group: Subsidiary Risk:

IMO / IMDG

UN-No:
Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

RID

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group:

ICAO

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group:

ΙΑΤΑ

UN-No: **Proper Shipping Name: Hazard Class:** Subsidiary Risk: Packing Group: ERG Code: **Special Provisions**

No data available No information available No Information available No information available No information available

Not Regulated No information available No information available

Not Regulated No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available

Not Regulated No information available No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	CHINA	Australia	EINECS-No.

				(PICCS)			(AICS)	
Dextran, 4000	9004-54-0	Present XU	Present KE-09622	Present	Present (8)-98	Present	Present	Present 232-677-5

U.S. Regulations

Dextran, 4000

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 186.1275 FDA - 21 CFR - Total Food Additives 186.1275

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
		-		Reproductive	Reproductive
				Toxicity	Toxicity:
Dextran, 4000	9004-54-0	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Dextran, 4000	9004-54-0	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Dextran, 4000	9004-54-0	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria. Information:

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

Non-controlled

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Dextran, 4000	9004-54-0	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Dextran, 4000	9004-54-0	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Dextran, 4000	9004-54-0	Not listed

EU Classification

EU GHS - SV - CLP 172/2008

Components	CAS-No.	EU GHS - SV - CLP (172/2008)
Dextran, 4000	9004-54-0	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Dextran, 4000	9004-54-0		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Not dangerous

16. OTHER INFORMATION

Preparation Date:	4/29/2015
Revision Date:	7/12/2017
Prepared by:	Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet