



# SAFETY DATA SHEET

Preparation Date: 8/13/2014 Revision date 6/6/2018 Revision Number: G3

## 1. IDENTIFICATION

**Product identifier** 

Product code: DE140

Product Name: DEXTROSE, ANHYDROUS, GRANULAR, USP, EP, BP, JP

Other means of identification

Synonyms: Cartose

Cerelose Corn sugar

D-Glucose, anhydrous

Dextropur Dextrose Dextrosol Glucolin Glucose

Glucose, anhydrous

CAS #: 50-99-7
RTECS # LZ6600000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: In Foods.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

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Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

## 2. HAZARDS IDENTIFICATION

#### Classification

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

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

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### Label elements

### Warning

May form combustible dust concentrations in air

### Hazards not otherwise classified (HNOC)

Not Applicable

## Other hazards

Not available

#### **Precautionary Statements - Prevention**

Prevent dust accumulations to minimize explosion hazard Keep away from all ignition sources including heat, sparks, and flame Keep container closed and grounded

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Glucose (Dextrose), Anhydrous	50-99-7	100

### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

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. If not breathing, give artificial

respiration. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause eye/skin irritation

May cause gastrointestinal disturbances May cause hypermotility, diarrhea

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

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First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## **5. FIRE-FIGHTING 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 from the chemical

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

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: No information available

**Special Protective Equipment for Firefighters:** 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. Non-sparking tools should be used.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not flush into surface water

or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

**Methods for cleaning up**Sweep up and shovel into suitable containers for disposal. Use only non-sparking

tools. 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

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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. Do not ingest. Do not breathe 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**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Glucose (Dextrose), Anhydrous	50-99-7	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Glucose (Dextrose), Anhydrous	50-99-7	None	None	None	None

### **Australia and Mexico**

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Component	CAS No	Australia	Mexico
Glucose (Dextrose), Anhydrous	50-99-7	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 exhaust 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

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BP. JP

### **Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

**Skin and body protection:** Long sleeved clothing

Chemical resistant apron

Gloves

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**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:SolidPowder. Crystalline powder.White.

Odor:TasteFormulaOdorless.Sweet.C6-H12-O6

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 146 °C/294.8 °F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available No information available No information available

Specific gravity: pH Vapor pressure @ 20°C (kPa):

1.544 No information available No information available

**Evaporation rate:**No information available

Vapor density:
VOC content (g/L):
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

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

-3.24

Miscibility: Solubility:

No information available Freely soluble in water

Solubility in Water: 1200 gm/l or 1g/0.8 ml @ 30 deg. C.; 1 g/1.1 ml @ 25 deg. C; 1 g/0.41 ml @ 50 deg. C; 1 g/0.28 ml @ 70 deg. C; 1 g/0.18 ml @ 90 deg. C.Solubility in Methanol: 1 g/120 ml @

20 deg. C

Very slightly soluble in Methanol

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ANHYDROUS, GRANULAR, USP, EP,

Slightly soluble in Acetone Slightly soluble in alcohol

Soluble in Pyridine, Aniline, hot Glacial

Acetic Acid

### 10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: 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**

Glucose (Dextrose), Anhydrous

CAS No 50-99-7

**LD50/oral/rat** = 25800 mg/kg Oral LD50 Rat **LD50/oral/mouse** = No information available

LD50/dermal/rabbit = No information available

**LD50/dermal/rat** = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

**Product Information** 

LD50/oral/rat =

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Value - Acute Toxicity = 25800 mg/kg

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

**VALUE - Acute Tox =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: DE140

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Not expected to be a health hazard. May cause gastrointestinal disturbances.

Ingestion of very large quantities may cause gastrointestinal upset or indigestion.

May cause hypermotility, diarrhea. May cause hyperglycemia.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: May affect genetic material

Mutations in microorganisms

Experiments with bacteria and/or yeast have shown mutagenic effects

Mutagenic effects in mammalian somatic cells

Experiments with animal lymphocytes have shown mutagenic effects

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Glucose (Dextrose), Anhydrous	50-99-7	Not listed	Not listed	Not listed	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:** Concerns about the effects of Glucose on human embryonic development are

> based on the finding that infants of diabetic women and women who develop gestational diabetes have an increased incidence of congenital anomalies. The most common abnormalities are cardiac and neural tube defects. With more strict

control of diabetes, the congenital anomaly rate appears to be decreased, provided such control is instituted early in pregnancy. The findings suggest, but do not prove that an elevated glucose level in maternal blood is the teratogenic

principle in diabetic pregnancies

No information available **Teratogenic Effects:** 

**Specific Target Organ Toxicity** 

STOT - single exposure STOT - repeated exposure

**Target Organs:** 

No information available. No information available. No information available.

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

**Ecotoxicity effects:** No data available.

No information available Persistence and degradability:

No information available. Bioaccumulative potential:

No information available Mobility in soil No information available. Other adverse effects

## 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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Glucose (Dextrose), Anhydrous	50-99-7	None	None	None	None

## 14. TRANSPORT INFORMATION

Product code: DE140 Product name: DEXTROSE, Page 8/12 DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

**IMDG** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**IATA** 

UN Number Not Regulated

**Proper Shipping Name:** No information available

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Transport hazard class(es)
Subsidiary Risk:
Packing group
No information available
No information available
No information available
No information available

Response

Special Provisions No information available

## 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Glucose (Dextrose), Anhydrous	50-99-7	PresentACTIV E	Present KE-17727	Present	Present (8)-46	Present	Present	Present 200-075-1

## **U.S. Regulations**

Glucose (Dextrose), Anhydrous

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1857

**FDA - 21 CFR - Total Food Additives** 101.9, 133.124, 133.178, 133.179, 145.134, 145.180, 145.3, 146.132, 146.140, 146.141, **- List Sourced from EAFUS** 146.145, 146.146, 146.3, 155.170, 155.200, 168.110, 168.111, 169.175, 169.179, 172.816, 184.1857, 73.85

### 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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Glucose (Dextrose), Anhydrous	50-99-7	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Component	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
Glucose (Dextrose), Anhydrous	50-99-7	None	None	None	None	None

#### **U.S. TSCA**

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Glucose (Dextrose), Anhydrous	50-99-7	Not Applicable	Not Applicable

#### Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification

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BP, JP

Information:

Component Glucose (Dextrose), Anhydrous 50-99-7 ( 100 ) WHMIS 2015 Hazard Classification Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

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

## DSL/NDSL

Component	CAS No		Canada (NDSL)
Glucose (Dextrose), Anhydrous	50-99-7	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Glucose (Dextrose), Anhydrous	50-99-7	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Glucose (Dextrose), Anhydrous		Not listed

### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Glucose (Dextrose), Anhydrous	50-99-7	

### EU - CLP (1272/2008)

#### R-phrase(s)

not determined (not applicable)

## S -phrase(s)

none

Component	CAS No	Concentration Limits:	Safety Phrases
Glucose (Dextrose), Anhydrous	50-99-7	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:8/13/2014Revision date6/6/2018Prepared by:Sonia Owen

**Product code:** DE140 **Product name:** DEXTROSE, ANHYDROUS, GRANULAR, USP, EP,

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### 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** 

Product code: DE140