# MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name **DEXTROSE** 

Version # 02

Revision date 08-26-2011 CAS# 50-99-7

**Product Codes** J.T.Baker: 1916, 1919, 1920, 4893, 5587

Macron: 4908, 4912, 4915, 7730

Synonym(s) D-glucose; dextrosol; corn sugar; grape sugar

Manufacturer Avantor Performance Materials, Inc.

Address 3477 Corporate Parkway

Suite #200

Center Valley, PA 18034

US

855-282-6867 **Customer Service** 24 Hour Emergency 908-859-2151 Chemtrec 800-424-9300

2. Hazards Identification

**Emergency overview** Low hazard for usual industrial or commercial handling. Handle in accordance with good industrial

hygiene and safety practice.

**OSHA** regulatory status This material is not considered hazardous by the OSHA Hazard Communication Standard, OSHA

29 CFR 1910.1200.

Potential health effects

Routes of exposure Inhalation. Skin contact. Eye contact. Ingestion.

**Eyes** Dust or powder may irritate eye tissue. If irritation should occur, it is expected to be transient.

Skin Health injuries are not known or expected under normal use. Inhalation Health injuries are not known or expected under normal use.

Ingestion Expected to be a low ingestion hazard.

Chronic effects None known.

Potential environmental effects The product components are not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

3. Composition / Information on Ingredients

Non-hazardous components	CAS#	Percent
DEXTROSE	50-99-7	90 - 100

# 4. First Aid Measures

First aid procedures

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do,

remove contact lenses. Get medical attention if irritation develops and persists.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Inhalation Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Ingestion Seek medical advice. Notes to physician Treat symptomatically.

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Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

### 5. Fire Fighting Measures

Flammable properties

Dust may form explosive mixture with air.

Extinguishing media

Suitable extinguishing

media

Water. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

None known.

Protection of firefighters

Protective equipment and precautions for firefighters

Firefighters should wear full protective gear. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and

face mask.

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

Specific methods In the event of fire, cool tanks with water spray. In the event of fire and/or explosion do not

breathe fumes.

**Hazardous combustion products** Carbon monoxide and carbon dioxide.

#### 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep upwind. Ventilate the area. Avoid inhalation of dust

from the spilled material. Do not touch damaged containers or spilled material unless wearing

appropriate protective clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). If

sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up Avoid dust formation.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Large Spills: Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce

airborne dust and prevent scattering by moistening with water.

Never return spills in original containers for re-use. Clean contaminated surface thoroughly. Clean

up in accordance with all applicable regulations.

### 7. Handling and Storage

Handling Keep formation of airborne dusts to a minimum. Dust may form explosive mixture with air. DO

NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Wash thoroughly after handling. See Section 8 of the MSDS for

Personal Protective Equipment.

Storage Keep container tightly closed. Store in a well-ventilated place.

# 8. Exposure Controls / Personal Protection

**Exposure guidelines** No exposure standards allocated.

Engineering controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes

that may be generated during handling or thermal processing.

Personal protective equipment

**Eye / face protection** Use tight fitting goggles if dust is generated.

**Skin protection** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory protection** Wear respirator if there is dust formation.

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General hygeine considerations

Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical & Chemical Properties

Powder to Crystals **Appearance** Colorless to White. Color

Odor Odorless. Odor threshold Not available.

Solid. Physical state Solid. **Form** 

294.8 °F (146 °C) Melting point Freezing point 294.8 °F (146 °C) Not available. **Boiling point** Not available. Flash point Not available. **Evaporation rate** Flammability limits in air, upper, Not available.

% by volume

Not available.

Flammability limits in air, lower, % by volume

Not available. Vapor density

Specific gravity 1.544

Relative density Not available. Soluble Solubility (water) -3.24 Partition coefficient

(n-octanol/water)

Auto-ignition temperature Not available. Not available. Decomposition temperature Molecular weight 180.16 g/mol Molecular formula C6-H12-O6

## 10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal temperature conditions.

Conditions to avoid Heat, flames and sparks. Dust clouds may be explosive under certain conditions.

Incompatible materials Strong oxidizing agents. Inorganic peroxides.

Hazardous decomposition

products

Carbon monoxide. Carbon Dioxide.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

# 11. Toxicological Information

Sensitization Not a skin sensitizer.

Acute effects Low hazard for usual industrial or commercial handling.

Chronic effects None known.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

Skin corrosion/irritation Not applicable.

**Epidemiology** No epidemiological data is available for this product.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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Neurological effects None known.

Reproductive effects Contains no ingredient listed as toxic to reproduction

**Teratogenicity** No data available to indicate product or any components present at greater than 0.1% may cause

birth defects.

Symptoms and target

organs

None known.

### 12. Ecological Information

**Ecotoxicity** This product has no known eco-toxicological effects.

**Environmental effects** Ecological injuries are not known or expected under normal use. An environmental hazard cannot

be excluded in the event of unprofessional handling or disposal.

Aquatic toxicity This material is not expected to be harmful to aquatic life.

Persistence and degradability

Expected to be readily biodegradable.

Partition coefficient (n-octanol/water)

-3.24

## 13. Disposal Considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.

Incinerate the material under controlled conditions in an approved incinerator.

Contaminated packaging Offer rinsed packaging material to local recycling facilities. Since emptied containers retain

product residue, follow label warnings even after container is emptied.

# 14. Transport Information

#### DOT

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

### 15. Regulatory Information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

#### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 311 hazardous

chemical

Food and Drug Administration

(FDA)

Total food additive Direct food additive GRAS food additive

Inventory status

Country(s) or region Inventory name On inventory (yes/no)\*

Australia Australian Inventory of Chemical Substances (AICS)

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Yes

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Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vaa" indicates that all sampa	nearty of this product comply with the inventory requirements administered by the govern	ing country(a)

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

Saf-T-Data Health: 0 - None

> Flammability: 2 - Moderate Reactivity: 0 - None Contact: 0 - None

Lab Protective Equip: B - GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: G - Green (General Storage)

# 16. Labeling Info

**Label Hazard Warning** Low hazard for usual industrial or commercial handling. Handle in accordance with good industrial

hygiene and safety practice.

**Label Precautions** Keep away from heat, sparks and flame. Wash thoroughly after handling. Keep container closed.

**Label First Aid** Immediately flush eyes with plenty of water for at least 15 minutes. Flush skin thoroughly with

> water. If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. Get medical attention if irritation develops or persists. If ingestion of a

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large amount does occur, call a poison control center immediately.

# 17. Other Information

NFPA ratings Health: 0

> Flammability: 1 Instability: 0

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#### Disclaimer

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