



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Fructose USP

30-1271

Section 1: Identification

Product Name Fructose USP
Commercial Name Not available.
Product Use Not available
Restrictions On Use Not available

Product Code 30-1271

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Not available.
CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) May form combustible dust concentrations in air.
Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available.
Response Not available.
Storage Not available
Disposal Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components {D-}fructose
% By Weight 100
CAS# 57-48-7
Molecular Weight 180.16 g/mole
Chemical Formula C₆H₁₂O₆
Synonym(s) Levulose; Fruit sugar

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
{D-}fructose	57-48-7	100	Not available.	Not applicable.

Section 4: First-Aid Measures

Inhalation	Move to fresh air.
Skin Contact	Wash off with warm water and soap
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids.
Ingestion	Health injuries are not known or expected under normal use.
Symptoms/Effects	
Acute	Eyes Contact with eyes may cause irritation. Skin Product dust may cause mild, mechanical irritation. Inhalation Dust may cause irritation of respiratory tract. See section 8 of this sheet for exposure limits pertaining to nuisance dust or "particulates not otherwise regulated". Ingestion Health injuries are not known or expected under normal use. Main Symptoms Irritating to respiratory system.
Delayed	Eyes Contact with eyes may cause irritation. Skin Product dust may cause mild, mechanical irritation. Inhalation Dust may cause irritation of respiratory tract. See section 8 of this sheet for exposure limits pertaining to nuisance dust or "particulates not otherwise regulated". Ingestion Health injuries are not known or expected under normal use. Main Symptoms Irritating to respiratory system.

Immediate Medical Attention

Special forms of treatment and immediate medical attention are not specified. Treat Symptomatically.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO₂). Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Carbon monoxide (CO), Carbon dioxide (CO₂)

Firefighters Special Equipment and Precautions

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

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Ensure adequate ventilation. Avoid dust formation. Environmental Precautions: No special environmental precautions required. Prevent further leakage or spillage if safe to do so. Methods and Materials for Containment and Cleaning Up: Sweep up and shovel into suitable containers for disposal.

Section 7: Handling and Storage

Handling: Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities". Ensure adequate ventilation. Storage: Keep in a dry, cool and well-ventilated place

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Where exposure limits have not been established for specific components of this material, please observe the OSHA and ACGIH established limits for particulates not otherwise classified (PNOC). OSHA PEL: [15 mg/m ³ (total dust) 8-hr TWA], [5 mg/m ³ (respirable) 8-hr TWA]. ACGIH TLV: [10 mg/m ³ (inhalable) 8-hr TWA], [3 mg/m ³ (respirable) 8-hr TWA].
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. However it is the duty of the user to verify this and follow given exposure limits at the workplace. General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Personal Protection

Eye/face Protection: If exposed to airborne dust, appropriate safety glasses with side-shields or safety goggles are recommended. If airborne dust concentrations are excessive, wear goggles. **Skin and Body Protection:** Protective clothing and gloves may be worn to reduce the potential of mechanical irritation. **Respiratory Protection:** If exposed to airborne dust, use appropriate NIOSH approved (or equivalent) respiratory protection

Section 9: Physical and Chemical Properties

Appearance	White Powder.		
Odor	Odorless.		
Odor Threshold	Not available		
Melting Point	103 °C / 217 °F	pH	Not available
Freezing Point	Not available	Vapor Pressure	Not applicable.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	Not available
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available
Solubility(ies)	Soluble in water.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	None under normal processing.
Conditions to Avoid	Avoid dust formation. Heat, flames and sparks.
Incompatible Materials	Not available.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO ₂).

Section 11: Toxicological Information**RTECS** LS700000**Acute Toxicity**

Based on available data, no evidence of acute toxicity

Skin Corrosion/Irritation

Based on available data, not, or only slightly irritating

Serious Eye Damage/Irritation

Based on available data, no evidence of serious eye damage / irritation.

Respiratory or Skin Sensitization

Based on available data, not expected to be a skin or respiratory sensitiser

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met

Carcinogenicity

No evidence of carcinogenicity.

Reproductive Toxicity

Based on available data, the classification criteria are not met

Routes of Entry

Not available.

Symptoms Related to Exposure

Main Symptoms Irritating to respiratory system.

Potential Health Effects

Eyes Contact with eyes may cause irritation. Skin Product dust may cause mild, mechanical irritation. Inhalation Dust may cause irritation of respiratory tract. See section 8 of this sheet for exposure limits pertaining to nuisance dust or "particulates not otherwise regulated". Ingestion Health injuries are not known or expected under normal use.

Target Organ(s) Not available

Section 12: Ecological Information**Ecotoxicity**

Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants

Persistence and Degradability

Biodegradable

Bioaccumulative Potential

Not available

Mobility in Soil

Soluble in water

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.

Disposal of Container

Not available

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

Federal Regulations Ozone Depleting Substances: No Class I or Class II material is known to be used in the manufacture of, or contained in, this product. SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372. CERCLA/SARA 103-302 Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302. SARA 311/312 Hazardous Categorization Refer to the OSHA hazard classification(s) provided in section 2 of this SDS. Acute Health Hazard No Chronic Health Hazard

___ No Fire Hazard Yes (when in the form of combustible dust) Sudden Release of Pressure Hazard Authored to comply with 29 CFR 1910.1200, (HCS 2012) and SOR/2015-17, Schedule 1 (WHMIS 2015) as amended to conform to the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). No Page 6 / 8 Reactive Hazard No Prepared By: Universal Preserv-A-Chem Inc Original Preparation Date: 24-Aug-2009 Revision Date: 27-Feb-2017 Revision Number: 1 Reason for revision: New SDS format. This version replaces all previous versions. Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63) This product is not known to contain any HAPS.

Other

WHMIS Not controlled under WHMIS (Canada). (Canada);DSCL (EEC) This product is not classified according to the EU regulations.;Gloves.;Lab coat.;Dust respirator. Be sure to use an approved/certified respirator or equivalent.;Safety glasses.

Section 16: Other Information

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. 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 MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.