

Material Safety Data Sheet

D-Fructose

MSDS# 06165

Section 1 - Chemical Product and Company Identification

MSDS Name: D-Fructose

AC161350000, AC161350010, AC161350025, AC161351000, AC161355000, AC219570000 Catalog AC219570000, AC219570010, AC219572500, L95-500, L96-100LB, L96-12, L96-212, L96-500 Numbers:

Synonyms: Fruit sugar; D(-)-Fructose; Levulose; Fructose.

Fisher Scientific Company Identification: One Reagent Lane

Fair Lawn, NJ 07410

201-796-7100 For information in the US, call: **Emergency Number US:** 201-796-7100 CHEMTREC Phone Number, US: 800-424-9300

Section 2 - Composition, Information on Ingredients

57-48-7 CAS#: Chemical Name: **D-Fructose**

%: >98

EINECS#: 200-333-3

Hazard Symbols: None listed Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! May cause eye irritation. This is expected to be a low hazard for usual industrial handling. Target Organs: None.

Potential Health Effects

Eye: May cause eye irritation.

Skin: Low hazard for usual industrial handling. Ingestion: Low hazard for usual industrial handling.

Inhalation: Dust is irritating to the respiratory tract. Low hazard for usual industrial handling.

Chronic: No information found.

Section 4 - First Aid Measures

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If Eyes:

irritation develops, get medical aid.

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get Skin:

medical aid if irritation develops or persists.

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an Ingestion:

unconscious person. Get medical aid if irritation or symptoms occur.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If Inhalation:

breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved General or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by Information:

thermal decomposition or combustion. Dust from this material can form explosive organic dust cloud.

Extinguishing Use water spray, dry chemical, carbon dioxide, or appropriate foam. Media:

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Not available Lower:

Explosion Limits: Upper: Not available

NFPA Rating: health: 0; flammability: 1; instability: 0;

Section 6 - Accidental Release Measures

General

Use proper personal protective equipment as indicated in Section 8.

Information:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately,

Spills/Leaks:

observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide

ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

+	+	+	++
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
D-Fructose	none listed +	none listed +	none listed

OSHA Vacated PELs: D-Fructose: None listed

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face

protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Protective garments not normally required.

Clothing:

Protective garments not normally required.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Color: white

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not applicable.

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 103-105 deg C (dec)

Decomposition Temperature:

Solubility in water: Freely Soluble

Specific Gravity/Density:

Molecular Formula: C6H12O6 Molecular Weight: 180.16

Section 10 - Stability and Reactivity

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling

conditions.

Conditions to Avoid:

Dust generation, moisture, excess heat.

Incompatibilities with Other

Materials

Strong oxidizing agents.

Hazardous Decomposition

Products

Carbon monoxide, carbon monoxide, carbon dioxide.

Hazardous Polymerization

Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 57-48-7: LS7120000

LD50/LC50:

RTECS: Not available.

Carcinogenicity:

D-Fructose - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not Regulated

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 57-48-7: 0

Canada

CAS# 57-48-7 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 57-48-7 is not listed on Canada's Ingredient Disclosure List.

TSCA

CAS# 57-48-7 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 12/12/1997 Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
