

# SAFETY DATA SHEET

Creation Date 26-Sep-2009

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification

**Product Name** 

**D-Fructose** 

A17718

Cat No. :

CAS-No

**Synonyms** 

57-48-7 No information available

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

## Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements
None required

Hazards not otherwise classified (HNOC)

None identified

3.	Composition/	Information on	Ingredients

Component	CAS-No	Weight %
D-Fructose	57-48-7	>95

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.		
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.		
Most important symptoms and	None reasonably foreseeable.		
effects Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	

Explosion Linnis	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

## **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

## Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## **Protective Equipment and Precautions for Firefighters**

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

<u>NFPA</u> Health 1	Flammability 1	Instability 0	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.			
Environmental Precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.			

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage	
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. Wash hands before breaks and immediately after handling the product.	
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.	
8. E	xposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.	
Engineering Measures	None under normal use conditions.	
Personal Protective Equipment		
Eye/face Protection	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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Phys	sical and chemical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	5-7 @ 25°C (1.8 %)
Melting Point/Range	103 - 105 °C / 217.4 - 221 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C6 H12 O6
Molecular Weight	180.16

## 10. Stability and reactivity

Reactive	Hazard
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None known, based on information available

Stable under normal conditions.

Stability

Mobility

Conditions to Avoid	I	Incompatible products. Excess heat. Avoid dust formation.				
Incompatible Materi	als	Strong oxidizing a	gents			
Hazardous Decomp	osition Products	Carbon monoxide	(CO), Carbon diox	ide (CO <sub>2</sub> )		
Hazardous Polymer	ization	Hazardous polyme	erization does not o	occur.		
Hazardous Reactior	าร	None under norma	al processing.			
		11. Toxico	ological info	ormation		
Acute Toxicity						
Product Information		No acute toxicity in	nformation is availa	able for this product		
Component Informa Toxicologically Syn		No information ava	ailable			
Products Delayed and immed	liate effects as w	ell as chronic effe	cts from short an	d long-term expos	sure	
Irritation		May cause irritatio	n			
Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
D-Fructose Mutagenic Effects	57-48-7	Not listed	Not listed	Not listed	Not listed	Not listed
-	-					
Reproductive Effect	IS	No information ava	allable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	No information available				
Endocrine Disruptor Information		No information available				
Other Adverse Effects		The toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains.					
Persistence and De	gradability	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ Accumulation		No information ava	ailable.			

Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

## Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

## United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
D-Fructose	57-48-7	Х	ACTIVE	-

## Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
D-Fructose	57-48-7	Х	-	200-333-3	Х	Х	Х	Х	KE-17262

## U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland	

#### Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
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Disclaimer

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## **End of SDS**