FRUCTOSE

1554
October 2004

CAS No: 57-48-7
RTECS No: LS7120000

D-Fructose
Fruit sugar
Arabino-hexulose
D-(-)-Levulose
$C_6H_{12}O_6$
Molecular mass: 180.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE			
Inhalation	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
Skin			Rinse and then wash skin with water and soap.
Eyes	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Personal protection: P1 filter respirator for inert particles.	

EMERGENCY RESPONSE	SAFE STORAGE
	Separated from strong oxidants.

IPCS
International Programme on Chemical Safety

Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission

IMPORTANT DATA

Physical State; Appearance
WHITE CRYSTALS OR POWDER

Physical dangers
Dust explosion possible if in powder or granular form, mixed with air.

Chemical dangers
Reacts with strong oxidants causing fire and explosion hazard.

Occupational exposure limits
TLV not established.
MAK not established.

Inhalation risk
A nuisance-causing concentration of airborne particles can be reached quickly when dispersed, especially if powdered.

Effects of short-term exposure
May cause mechanical irritation.

PHYSICAL PROPERTIES

Melting point (decomposes): 103-105/C
Solubility in water: at 20/C good

Auto-ignition temperature: 360/C

ENVIRONMENTAL DATA

NOTES

ADDITIONAL INFORMATION