

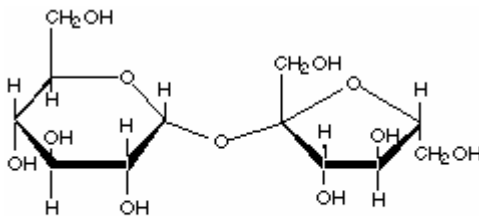


MATERIAL SAFETY DATA SHEET

Section 1 - GENERAL REMARK

Sugar is a safe food ingredient. With regard to its safety, it can be compared to starch, glucose syrups.

Section 2- PRODUCT IDENTIFICATION



Sucrose
(glucose (α 1-->2) fructose)

Saccharose C12 H22 O11

Section 3 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Organic cane Sugar

PRODUCT USE: Human consumption

SUPPLIER

Pure Life Organic Foods Limited (USA).

3910 Pecos McLeod Suite D-100 Las Vegas, Nevada 89121-4304

United States

Section 4 - HAZARDS IDENTIFICATION

- Kst value : 130...150

The next figures refer to sugar dust (<100 microns) : Class 1

- Minimum ignition temp. 380°C

- Minimum ignition energy: 10 milli joule
- Explosive limits (kg/m³): minimum 60 gr/m³
- Maximum rate of pressure rise (explosivity) : 425 bar /sec
- Maximum pressure : 8 - 9 bar

Section 5 – COMPOSITION / INFORMATION ON INGREDIENTS

S.No.	Physio-Chemical	Range Value
1.	Polarisation	Minimum 99.5 degrees
2.	Moisture	Maximum 0.10 %
3.	Reducing Sugar	Maximum 0.25%
4.	Mean Aperture	Maximum 0.40- 1.2 mm
5.	Variation Coefficient	Maximum 40%
6.	Fe Particle	Below 2 mg.
	Microbiological	
7.	Total Plate Count [CFU] (/ 10gm)	Maximum 500
8.	Yeast & Mould Count [CFU] (/10gm)	Maximum 50
9.	Salmonella	Negative in 25g
	Additional Test and Heavy Metal	
10.	Conductivity Ash	0.15%
11.	Arsenic	Maximum 1mg/kg
12.	Copper	Maximum 2mg/kg
13.	Cadmium	Maximum 0.1mg/kg
14.	Mercury	Maximum 0.1mg/kg
15.	Lead	Maximum 1mg/kg

Section 6 – FIRST AND MEASURES SWALLOWED

- No specific measures can be specified

Section 7 - FIRE FIGHTING MEASURES

- Self heating / spontaneous combustion risk - No
- Fire extinguishing media - Water

Section 8 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES : None

Sugar is a non-hazardous material meant for human consumption. It is a natural sweetener in food substances.

Section 9 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Storage in dry place, advised to keep away from moisture to avoid lumping of sugar. Currently sugar is free-flowing.
- Store away from sources of heat or ignition to avoid melting / caramelising

STORAGE:

- Shelf life: no time limit under specified conditions
- Storage conditions: store in dry place
(Crystal sugar) temp. 15° - 25°C
- Relative humidity :50 - 60%
- For caster and icing sugar the conditions of storage are more restrictive
(temp.17-22°C - HR: 50-60%);

STORAGE INCOMPATIBILITY

- None

STORAGE REQUIREMENTS

- Keep dry.
- Store under cover.
- Store away from sources of heat or ignition.
- Observe manufacturer's storing and handling recommendations.

Section 10 - EXPOSURE CONTROLS / PERSONAL PROTECTION

- Individual protective measures (respirators, gloves,..) : no special measures;

Section 11 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

- White crystals
- Soluble in water.

PHYSICAL PROPERTIES

- Solid.
- Mixes with water.
- Molecular Weight: 342.34 Boiling Range (°C): Not available
- Melting Range (°C): 160-186 Specific Gravity (water=1): 1.59
- Solubility in water (g/L): Miscible pH (as supplied): Not applicable
- pH (1% solution): Not available Vapour Pressure (kPa): Not applicable
- Volatile Component (%vol): Not applicable Evaporation Rate: Not applicable
- Relative Vapour Density (air=1): Not applicable Flash Point (°C): Not applicable
- Autoignition Temp (°C): Not available Decomposition Temp (°C): Not available

Note: No specific properties linked to hazards identified

Section 12 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials like water
- Product is considered stable.
- Hazardous polymerization will not occur.

Section 13 - TOXICOLOGICAL INFORMATION

- LD50 : 29700 mg/kg , tested in rats
- Skin irritation: no
- Eye irritation: no

CHRONIC HEALTH EFFECTS

- Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts.

TOXICITY AND IRRITATION

- None assigned. Refer to individual constituents.
- Sucrose: Unless otherwise specified - data extracted from RTECS - Register of Toxic Effects of Chemical Substances.
- Toxicity irradiation: Nil Reported

Section 14 - ECOLOGICAL INFORMATION

- No data for White Sugar.

Section 15 - TRANSPORTATION INFORMATION

- Hazard symbols none
- R symbols none

Section 16 - REGULATORY INFORMATION

Authorized food ingredient complies with –

- Regulation EC (178/2002) - General principles of Food law
- Regulation EC (1935/2004) - Materials and articles intended to come into contact with food
- Regulation EC (852/2004) - Hygiene of foodstuffs
- Regulation EC (2002/72/EC) - Plastic materials and articles intended to come into contact with foodstuffs.