

Material Safety Data Sheet(MSDS)

Fructo-oligosaccharides (FOS) Powder

SECTION 1:Chemical Product and Company Identification

Product Name: Fructo-oligosaccharides (powder)

Synonyms: F.O.S

CAS No.: 308066-66-2

Manufacturer: Orison Chemicals Limited

701-1, Haowei Bldg A, the 3RD Str, TEDA, Tianjin, China

For other information call: 86-22-25600945

For 24 Hours emergency call: 86 25600945

SECTION 2 :Material Composition/ Ingredients Information

Ingredient	CAS No	Percent
Fructooligosaccharides	308066-66-2	100%

SECTION 3: Hazards Identification

Potential Acute Health Effects:

Slightly hazardous in case of eye contact (irritation), of inhalation. Non-irritant for skin. Non-hazardous in case of ingestion.

Potential Chronic Health Effects:

Carcinogenic Effects: Non-hazardous

Mutagenic Effects: Non-hazardous

Teratogenic Effects: Non-hazardous

Developmental Toxicity: Non-hazardous

Repeated or prolonged exposure is not known to aggravate medical condition.

SECTION 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact:

Wash with soap and water. Cover the irritation skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: First aid is not normally required. If symptoms develop, seek medical attention.

SECTION 5: Fire and Explosion Data

Flammability of the product: May be combustible at high temperature.

Auto-Ignition Temperature Not available.

Flammable Limits: Not applicable.

Hazardous Products of Combustion: Carbon dioxide and carbon monoxide.

Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Fire fighting Media and Instructions:

Small fire: use Dry chemical powder

Large fire: use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:

As with most organic solids, fire is possible at elevated temperatures.

SECTION 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7: Handling and Storage**Handling:**

No special requirements, although standard good manufacturing practices should be observed in order to avoid excessive dust generation. The provision of local exhaust of a general dilution ventilation system is recommended.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic.

SECTION 8: Exposure Controls/Personal Protection**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves .

Personal Protection In Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots .Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product.

Exposure Limits: Not available.

SECTION 9: Physical/Chemical Characteristics Data

Physical state and Appearance: Light yellow syrup

Odor: Odorless

Taste: Neutral to slightly sweet.

Boiling Point: N/A

Melting point: Decomposition temperature.180°C

pH: 4.5-7.0(10% Solution@25°C)

Critical Temperature: N/A

Specific Gravity: N/A

Vapor Pressure: N/A

Dispersion Properties: See solubility in water

Solubility: Soluble in cold water.

Odor Threshold: N/A

SECTION 10: Stability and Reactivity Data

Stability: The product is stable. Stable in a freezer for more than 5 years.

Conditions of Instability:

Excess heat, ignition sources (sparks, flames), incompatible materials.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on reactivity

No information found at this time

Polymerization: Will not occur.

SECTION 11: Toxicological Information

Routes of Entry: Inhalation, Ingestion

Toxicity to Animals

LD50: Not available

LC50: Not available

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans:

Slightly hazardous in case of inhalation. Non-irritant of skin. Non-hazardous in case of ingestion.

Special Remarks on Toxicity to Animals: Non-hazardous

Special Remarks on Chronic Effects on Humans: Non-hazardous

SECTION 12: Ecological Information

Ecotoxicity: Non-hazardous

BOD5 and COD: Non-hazardous

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Non-hazardous

Special Remarks on the Products of Biodegradation: Non-hazardous

SECTION 13: Disposal Considerations

Waste must be disposed of in accordance with local, state regulations.

SECTION 14: Transport Information

The MSDS should accompany all shipments for reference in the event of spillage or accidental release.

IMO/IMDG: Not Regulated (non-dangerous)

DOT Classification: Not a controlled material

Identification: Not Regulated (non-dangerous)

Special Provisions for Transport: Not Regulated (non-dangerous)

SECTION 15: Other Regulatory Information

US Federal Regulations: No products were found.

Other Regulations: Not available

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS

DSCL (EEC): This product is not classified according to the EU regulations

SECTION 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. User should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall BLB biology 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 Orison chemicals has been advised of the possibility of such damages.

MSDS No: 20200121

Date of update: 2020-1-8

End of the MSDS