# Material Safety Data Sheet MALTODEXTRIN MD-18

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Maltodextrin MD-18

Product Code: -

Synonyms: Maltodextrin; CAS 9050-36-6; EINECS 232-940-4

**Use of the Substance / Preparation:** Food and nutritional ingredient / additive

Contact Manufacturer: Interstarch Ukraine, LLC

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### 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health. This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC. This substance does not required Labelling according to Regulation (EC) No 1272/2008/EC.

Appearance Homogeneous powder

Physical State White to off-white powder

**Taste and odour** Slightly sweet, typical to this product, without any foreign taste and odor

#### **Potential Health Effects**

### **Acute Effects**

**Eyes** Contact with eyes may cause irritation, inflamation.

**Skin** Health injuries are not known or expected under normal use. Though prolonged exposure

should be avoided, and good personal hygiene is essential.

InhalationNo hazard expected in normal industrial use. May cause respiratory tract irritation.IngestionNo hazard expected in normal industrial use. May cause irritation of the digestive tract.

Chronic Effects No information available.

Aggravated Medical Conditions No information available.

Potential Environmental EffectsSee Section 12 for additional ecological information.Toxicological informationSee Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical FamilyCarbohydrateMolecular Formula $H(C_6H_{10}O_5)_n$ -OHMolecular Weight (AGU)162,14 g/mol

## **Non-hazardous Components**

Chemical Name	CAS-No	Weight %
Maltodextrin	9050-36-6	94,0 % solids
Water	7732-18-5	6,0 % moisture

# 4. FIRST AID MEASURES

**Eye Contact** Rinse thoroughly with plenty of water, lifting eyelids occasionally.

**Skin Contact** Rinse with water.

**Inhalation** If person breathes large quantities, remove the person from the source of exposure. If breathing stops,

apply artificial respiration immediately.

**Ingestion** Rinse mouth with plenty of water. For larger quantities, drink large amounts of water.

Notes of any immediate

No information available.

medical attention

5. FIRE-FIGHTING MEASURES

**Flammable Properties** Fine dust dispersed in the air may ignite if a source of fire (heat, sparks, flame) takes place.

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

Unsuitable Extinguishing Media None known.

**Hazardous Combustion Products** Carbon monoxide (CO<sub>2</sub>), Carbon dioxide (CO<sub>2</sub>).

**Explosion Data** 

Sensitivity to mechanical impact

No information available.

Sensitivity to static discharge In certain conditions maltodextrin / air mixtures are explosive. Avoid any ignition

sources.

Specific Hazards Arising from the Chemical None known.

**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.

**6. ACCIDENTAL RELEASE MEASURES** 

**Personal Precautions**None under normal conditions. Wear appropriate protective clothing to protect against skin

contact, eye contact, and respiratory contact.

**Environmental Precautions**Biodegradable, increases BOD & COD

**Methods for Clean-up**Use a dry cleaning method e.g. vacuum cleaner, or alternatively brush up spillages and collect

in suitable containers. Dust deposits should not be allowed to accumulate on horizontal surfaces, as these may form an explosive mixture if they are suddenly released into the

atmosphere.

7. HANDLING AND STORAGE

**Handling** Handle in accordance with good industrial hygiene and safety practice. Use care to minimise dust

generation; avoid dispersing the powder in the air. Avoid static electricity: all handling equipment must be

properly grounded.

**Storage** Store in a clean, dry, well-ventilated area, away from strong odours and chemicals. Prevent heat contact,

open flame in the storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits** For Particulates Not Otherwise Specified

ACGIH TLV: TWA: 10 mg/m³ Inhalable dust

TWA: 5 mg / m<sup>3</sup> Respirable dust TWA: 15 mg / m<sup>3</sup> Total dust

OSHA PEL: TWA: 15 mg / m<sup>3</sup> Total dust

TWA: 5 mg/m³ Respirable dust

**Engineering Measures** Use adequate ventilation to keep airborne concentrations low.

**Personal Protective Equipment** 

Eye / face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by face

protection regulations in European Standard EN166.

Skin and Body Protection Protective clothing not normally required.

Respiratory Protection Dust mask is recommended. A respiratory protection program that meets European Standard

EN 149 requirements must be followed whenever workplace conditions warrant respirator

use.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** White homogeneous powder.

Physical State solid, powder

Odour Characteristic, without extraneous odour

Thermal decomposition / Melting 240°C / 464°F

Flammability Limits in Air No information available

**Explosion Limits** 

Lower: Not determined.

Upper: Not determined.

**pH** 4,0 - 7,0

Water SolubilityGood soluble in waterVapor DensityNo information availableVapor PressureNo information availableEvaporation RateNo information available

**Bulk density** 450 - 550 g/dm<sup>3</sup>

# 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions

Conditions to Avoid Avoid making dust

Incompatible Materials Avoid strong acids and alkali; oxidizing and reducing agents

Hazardous Decomposition Products

Burning can produce CO and CO2.

Possibility of Hazardous Reactions

Potential dust explosion hazard

St-Class 1

Minimum Ignition energy (MIE) > 30 mJ at normal moisture level

Minimum ignition temperature (MIT) 380 °C

Maximum explosion pressure (P<sub>max</sub>) 7,8 bar

**Dust deflagration value (K**<sub>st</sub>) 160 bar m/sec

Layer ignition temperature Melts

# 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Maltodextrin is a foodstuff and has no toxicological risk

**Product Information** 

LD50 OralNo information availableLD50 DermalNo information availableLC50 InhalationNo information available

Toxicology data for the components

Chronic Effects No information available

Carcinogenicity Not classifiable as Carcinogen

There are no known carcinogenic chemicals in this product.

Irritation No information available. Corrosivity No information available. Sensitization **Neurological Effects** No information available. No sensitizing effects known. No information available. **Reproductive Effects** No information available. **Mutagenic Effects Developmental Effects** No information available. **Target Organ Effects** No information available.

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.

Persistence / Degradability Readily biodegradable

BOD and COD No further relevant information available

Bioaccumulation/ Accumulation No data on Aquatic or Vegetable toxicity

**Mobility** Soluble in water

## 13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

Waste Disposal Methods Dispose of in compliance with the laws and regulations pertaining to this product in your

jurisdiction.

**Contaminated Packaging** Empty remaining contents. Clean container with water.

## 14. TRANSPORT INFORMATION

No dangerous good in terms of Ordinance on Hazardous Substances for land, inland transportation, sea- and air transportation. When handling chemicals usual precautions have to be observed.

## 15. REGULATORY INFORMATION

Ukraine Product is regulated as standart foodstuff in accordans with UA regulations Ty y 10.6-00383372-015:2018

"Maltodextrin. Technical requirements"

**USA FDA**This product is exempt by the FDA. Food additives Generally Recognized as Safe (GRAS): Maltodextrin

(9050-36-6)

**Europe** The substance does not fulfil classification criteria of the Regulation (EC)1272/2008. The substance is not

classified as dangerous under anticipated conditions of normal use.

### **16. OTHER INFORMATION**

The information above is based on the present state of our knowledge. With regard to safety requirements, it should describe our product and will not provide any assurance of properties.

The consignee of our product has to observe existing laws and regulations in his own responsibility.