

MULTYDEX[®] Sun 12
MALTODEXTRIN

SECTION 1. PRODUCT IDENTIFICATION AND INFORMATION ABOUT SUPPLIER

1.1 Product identification

Product name: MultyDex[®] Sun 12 - Maltodextrin
CAS-No.: 9050-36-6

1.2 Advisable and inadvisable application areas of substance or mixture

Approved application: Inadvisable application:
Dry food ingredient. Food industry No data available

1.3 Supplier's safety data sheet

Supplier: «SP Gulkevichsky» LLC
Address: 352189, Russia, Krasnodar region, Gulkevichsky district,
Krasnoselsky village, Promishlennaya str. 6
Phone: +7 (86160)3-08-73,
E-mail: mail@kzg.ru

1.4 Emergency telephone number

+7 (86160) 3-08-73

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of substances or mixtures

According to the version of the Globally Harmonized System of Classification and labeling adopted in the United States and Regulation 1272/2008/EC [CLP]: Not classified

2.2 Label elements: Non-applicable

2.3 Other hazards

Danger of fire and explosion:
Combustible dust concentrations can be produced in the air. Possibility of a dust explosion. You need to use the aspiration equipment to control dust in the air and prevent dust explosion. Avoid accumulation of dust on surfaces of equipment and premises or structural elements of the building. Ignition sources should be excluded during operation, including heat, sparks and open flames.

Potential health effects:

Inhalation: exposure of high concentrations in the working area air can cause slight respiratory irritation.

Skin contact: constant presence in a dusty working environment can lead to mechanical irritation in the skin crease,

especially on the fingers. Have not known or expected health effects.

Eye contact: can cause slight mechanical irritation if exposed in acute conditions.

Ingestion: no any known or expected health effects.



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Maltodextrin
EINECS-number	232-940-4
CAS-number	9050-36-6

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

Inhalation:	Move people from the exposure to fresh air.
Skin contact:	Wash with soap and water.
Eye contact:	Rinse thoroughly with water for at least 15 minutes. Get medical assistance.
Ingestion:	Product not hazardous when ingested.

4.2 The most important symptoms and effects, both acute and delayed.
None Anticipated

4.3 Indication of any immediate medical attention and special treatment needed.
None Anticipated

SECTION 5. FIRE AND EXPLOSION PRECAUTION MEASURES

5.1 Firefighting media

Recommended firefighting media:	water sprayer, air-mechanical and chemical foam, carbon dioxide.
Not recommended firefighting media:	compact water jet. Use of a water jet can produce explosive dust.
Prohibited firefighting media:	no restrictions on firefighting agents for this product.

5.2 Special hazards arising from the substance or mixture:

Danger of fire and explosion: possibility of dust explosion. You need to use the aspiration equipment to control dust in the air and prevent the conditions for a dust explosion. It is necessary to avoid accumulation of dust on surfaces of equipment and premises or structural elements of the building. Using of a water jet can produce explosive dust.

5.3 Advice for firefighters

Special firefighting procedures:	Prevent dust cloud.
Special protective equipment for firefighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Additional information

Hazardous combustion products: Carbon dioxide and carbon monoxide

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Staff safety precautions, protective equipment and emergency measures
Not applicable under normal conditions. Avoid dust breathing.

6.2 Environmental precautions
Not regarded as dangerous for the environment.

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6.3 Methods and materials for localization and purification

Collect dry substances or eliminate the spill. Minimize dust generation. If it is necessary to wash the contaminated area, use plenty of water and control the drain, then dispose.

6.4 Reference to other sections

See. Section 7 for information about safe handling

See. Section 8 for information about personal protective equipment

See. Section 13 for disposal information

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe the precautions specified in section 5.2.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: store in dry, well-ventilated areas, odorless, with a relative humidity not more than 70 %. Keep container tightly closed. Packaging materials must be approved for use in the food industry.

7.3 Specific scopes of applications

Non-applicable

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Form of exposure: Aerosol.

Maximum allowable concentration of the substances in the working area air :

- 15 mg /m³ total dust;
- 5 mg/m³ respirable dust.

8.2 Appropriate engineering controls

Technical means: ensure that you have good ventilation or local exhaust at working place. Normal industrial hygiene measures should be enough to protect workers from dust.

It is necessary to give priority to special events and relevant working processes compared to the use of personal protective equipment.

Suitable personal protective equipment:

Eye protection: goggles are recommended. If dust gets into eyes, rinse it with warm water.

Respiratory protective equipment: if ventilation is insufficient, use respiratory protective equipment (e.g. NIOSH approved respirator N-95). The manufacturer shall ensure that maintenance, cleaning and inspection of respiratory protection devices are released in accordance with the manufacturer's instructions. These activities should be properly documented.

Special protective clothing: use work clothing in accordance with industry regulations.



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Solid
Form	Powder
Color	White
Odor	Odorless
pH (50% solution)	5.0-6.0
Melting Point	No data available / not relevant
Boiling Point	No data available / not relevant
Flash Point	No data available / not relevant
Melting/freezing point	No data available / not relevant
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosion properties	No data available
Oxidizing properties	No data available
Vapour pressure	No data available
Vapour density	No data available / not relevant
Relative density	No data available
Bulk density	350-500 g/dm ³
Specific gravity	No data available
Viscosity	No data available
Water solubility	Soluble
Solubility (non aqueous)	No data available
Distribution factor	No data available
Dissociation constant	No data available / not relevant
Evaporation rate	No data available / not relevant

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
Stable

10.2 Chemical stability
Stable under standard ambient conditions (room temperature). Not polymerized.

10.3 Possibility of hazardous reactions
Non-applicable

10.4 Conditions to avoid
Avoid dust formation.

10.5 Incompatible materials
Strong oxidizing substances. Strong acids.

10.6 Hazardous decomposition products
Carbon Monoxide. Carbon Dioxide

SECTION 11. TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects

Inhalation

Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust

Ingestion

No effects known or anticipated

Skin irritation / corrosion

Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers, or other drying effects. No health effects known or anticipated

Eye irritation

May cause slight mechanical irritation from acute exposure

Skin sensitisation

Non-sensitizing

Chronic toxicity

No data available

Genetic toxicity

No data available

Carcinogenicity

Not classifiable as carcinogen

Reprotoxicity

No data available

Teratogenicity

No data available

Specific effects

Non-applicable

11.2 Additional information

Use in accordance with industrial hygiene and safety regulations.

SECTION 12. ENVIROMENTAL INFORMATION

12.1 Toxicity

Starch and its hydrolysis products are known to be non-toxic to plants and animals.

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

Starch and its hydrolysis products are not fat-soluble not accumulated in the tissues of plants or animals.

12.4 Mobility in soil

Non-applicable.

12.5 BPT, vPvB

BPT/vPvB (resistance, bioaccumulative, toxicity/strong resistance to strong bioaccumulative) has not been assessed because no chemical safety assessment is required.

12.6 Other adverse effects

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Waste must be disposed in accordance with national and local regulations.

Waste materials which are not contaminated with hazardous products are safe.

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SECTION 14. TRANSPORT INFORMATION

This material is not subject to transport regulations (IMDG, ICAO/IATA, ADR/RID, ADN).

14.5 Environmental hazards:	Not regulated
14.6 Special precautions for user: precautions.	No special
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Non-applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.
According to EU regulation No. 1272/2008: not classified.

15.2 Chemical safety Assessment
No chemical safety assessment has been carried out for this product in accordance with REACH regulation 1907/2006.

SECTION 16. OTHER INFORMATION

Revision Information: Not relevant.

Key literature references and sources for data:

1. EU regulation No. 1907/2006
2. EU regulation No. 1272/2008 (CLP) / EU No. 453/2010.

Abbreviations and acronyms used in the SDS.: CAS: Chemical Abstracts Service (division of the American Chemical Society)

Disclaimer

The information provided is based on the knowledge accumulated to this moment and characterizes the product in terms of the relevant safety standards. Present document shall not be referred to as guaranteed quality parameters of the products, use Product Sheet for certain batch for that. The information in this safety data sheet is collected from reliable sources. However, the information is provided without warranty of any kind, either expressed or implied. Conditions or methods of handling, storage, use or disposal of the product may be beyond our control and knowledge. For the avoidance of doubt, under no circumstances shall we be liable for any loss, damage or expense related to the handling, storage, use or disposal of the company's product and/or distributors. This safety data sheet applies only to the product identified in the identification Chapter and title. If the product is used as a component of other products, this safety data sheet cannot be applied to the composite product.

