

3.2 Mixtures

Hazardous components

Component	Concentration
Tapioca starch (CAS no.: 9005-25-8)	28.20 % (weight)
Silica (CAS no.: 7631-86-9)	20.00 % (weight)
Zea mays (corn) starch (CAS no.: 9005-25-8)	14.62 % (weight)
1,2-Hexanediol (CAS no.: 6920-22-5)	2.50 % (weight)
Magnesium carbonate (CAS no.: 546-93-0)	1.00 % (weight)

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Remove to fresh air and promote deep breathing. Get medical attention if effects persist.
In case of skin contact	Get medical attention if irritation or rash develops or persists. Wash with plenty of soap and water.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

If inhaled	Product particles in case of accidental penetration of the airways may cause mechanical irritation of respiratory tract, cough.
In case of skin contact	No adverse effects are normally expected. Prolonged and repeated exposure may cause mild skin irritation. May cause an allergic skin reaction in highly susceptible individuals.
In case of eye contact	May cause mild eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

May form combustible dust concentrations in air. Finely divided dusts can form explosive mixtures in air. Large dust clouds from product have the potential to ignite explosively. Hazardous combustion products: Carbon monoxide, carbon dioxide, unburned hydrocarbons (smoke), and other hazardous gases and fumes.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection recommended in Section 8. Ensure adequate ventilation. Avoid breathing dusts. Avoid formation of suspended dust or powder. Airborne dusts in the presence of an ignition source may constitute an explosion hazard. Keep all ignition sources away.

6.2 Environmental precautions

Do not release into the environment.

6.3 Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and arrange disposal without creating airborne dust. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes. Avoid inhalation and ingestion. Minimize dust generation and accumulation. Airborne dusts in the presence of an ignition source may constitute an explosion hazard. Avoid sources of ignition. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Tapioca starch and Zea mays (corn) starch (CAS no.: 9005-25-8)

PEL-TWA: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (OSHA)

REL-TWA: 10 mg/m³ (total), 5 mg/m³ (resp) (NIOSH)

TLV-TWA: 10 mg/m³ (ACGIH)

PEL-TWA: 10 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (Cal/OSHA)

Silica (CAS no.: 7631-86-9)
 PEL-TWA: 20 mppcf or (80 mg/m³)/(%SiO₂) (OSHA)
 REL-TWA: 6 mg/m³ (NIOSH)
 PEL-TWA: 6 mg/m³ (total dust), 3 mg/m³ (respirable dust), 6 mg/m³ (precipitated and gel) (Cal/OSHA)

Magnesium carbonate (CAS no.: 546-93-0)
 PEL-TWA: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (OSHA)
 REL-TWA: 10 mg/m³ (total), 5 mg/m³ (resp) (NIOSH)
 PEL-TWA: 10 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (Cal/OSHA)

8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Safety glasses are recommended if eye exposure risk exists during product handling/processing.

Skin protection

Protective gloves, such as nitrile gloves, are recommended in case of prolonged/repeated exposure during product handling/processing.

Body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Provide adequate ventilation. Respiratory protection is not required under normal use conditions. If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator must be used.

Thermal hazards

No data available.

Environmental exposure controls

Do not release into the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	White solid powder.
Odor	Characteristic.
Odor threshold	No data available.
pH	Not applicable.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.

Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	Not applicable.
Relative density	No data available.
Density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Non-reactive under normal use conditions.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Keep away from incompatible materials. Avoid airborne dust generation.

10.5 Incompatible materials

Strong oxidizers, strong acids, strong bases.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

If inhaled	Product particles in case of accidental penetration of the airways may cause mechanical irritation of respiratory tract, cough.
In case of skin contact	No adverse effects are normally expected. Prolonged and repeated exposure may cause mild skin irritation. May cause an allergic skin reaction in highly susceptible individuals.
In case of eye contact	May cause mild eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Acute toxicity

Based on available data, classification criteria are not met

Skin corrosion/irritation

Based on available data, classification criteria are not met

Serious eye damage/irritation

Based on available data, classification criteria are not met

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

Based on available data, classification criteria are not met

SECTION 12: Ecological information

Toxicity

No data available on product.

Persistence and degradability

No data available on product.

Bioaccumulative potential

No data available on product.

Mobility in soil

No data available on product.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects

No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: Disposal considerations

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Physical Hazard (combustible dust).

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS Rating

HEALTH	0
FLAMMABILITY	2
PHYSICAL HAZARD	0

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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