

## Safety data sheet

### Microballoon

Uniprox Safety data sheet according to Regulation (EC) No. 1907/2006

Product: Microballoon

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#### 1. Substance/ preparation and company identification

Trade name: Microballoon (MG126)

Application of substance/ the mixture: Lightweight Filler

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#### 2. Hazards identification

##### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

##### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

##### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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#### 3. Composition/information on ingredients

##### 3.1 Substances

Components	Concentration (% w/w)
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Chemical name	Silicon dioxide	>= 1 - < 10
CAS-No.	7631-86-9	
EC-No.	231-545-4	

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#### 4. First Aid Measures

##### 4.1 Description of first aid measures

General advice:	If symptoms persist, call a physician.
If inhaled:	If breathed in, move person into fresh air. If symptoms persist, call a physician.
In case of skin contact:	Wash off with soap and water.
In case of eye contact:	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
If swallowed:	Clean mouth with water and drink afterwards plenty of water.

##### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	No symptoms known or expected.
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##### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	Treat symptomatically and supportively.
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#### 5. Fire-fighting Measures

##### 5.1 Extinguishing media

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Not combustible.
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Unsuitable extinguishing media:	High volume water jet
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##### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:	No hazardous decomposition products are known.
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##### 5.3 Advice for firefighters

Special protective equipment for firefighters:	In the event of fire, wear self-contained breathing apparatus.
Further information:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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#### 6. Accidental Release Measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Avoid contact with skin, eyes and clothing. Avoid breathing dust.
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Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Treat recovered material as described in the section "Disposal considerations".

Contaminated surfaces will be extremely slippery.

## 6.2 Environmental precautions

Environmental precautions:

Should not be released into the environment.

Do not allow contact with soil, surface or ground water.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Avoid dust formation.

Use approved industrial vacuum cleaner for removal.

## 6.4 Reference to other sections

For personal protection see section 8.

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# 7. Handling and Storage

## 7.1 Precautions for safe handling

Advice on safe handling:

Provide for appropriate exhaust ventilation and dust collection at machinery.

Minimize dust generation and accumulation.

Dust must be collected and disposed of carefully.

Wear personal protective equipment.

Do not breathe vapours/dust.

In case of insufficient ventilation, wear suitable respiratory equipment.

Advice on protection against fire and explosion:

No special protective measures against fire required.

Hygiene measures:

Handle in accordance with good industrial hygiene and Safety practice.

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the product.

Regular cleaning of equipment, work area and clothing.

General industrial hygiene practice.

When using do not eat, drink or smoke.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.

Further information on storage conditions:

none

Advice on common storage:

Keep away from food, drink and animal feeding stuffs.

Storage class (TRGS 510):

13. Non-Combustible Solids

## 7.3 Specific end use(s)

Specific use(s):

No data available

## 8. Exposure Controls/ Personal Protection

## 8.1 Control parameters

## Occupational Exposure Limits

Components	CAS-No	Value type (Form of exposure)	Control parameters	Basis
minimize dust generation Silicon dioxide	7631-86-9	TWA (Respirable dust)	0,1 mg/m <sup>3</sup>	2004/37/EC
	Further information: Carcinogens or mutagens			
		AGW (Inhalable fraction)	4 mg/m <sup>3</sup> (Silica)	DE TRGS 900
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

## 8.2 Exposure controls

## Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

## Personal protective equipment

Eye protection:

Safety glasses with side-shields

Hand protection material:

Protective gloves

Remarks:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Skin and body protection:

Safety shoes

Wear suitable protective clothing.

Respiratory protection:

Where concentrations are above recommended limits or Are unknown, appropriate respiratory protection should be worn.

Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Half mask with a particle filter P2 (EN 143)

Protective measures:

Follow the skin protection plan.

## 9. Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance:

fine powder

Colour:

white

Odour:

odourless

Odour Threshold:

not determined

pH:

not determined

Boiling point/boiling range

not determined

Flash point:

not determined

Flammability (solid, gas):

No data available

Upper explosion limit / Upper

flammability limit:	No data available
Lower explosion limit / Lower flammability limit:	The product is not explosive at itself, but it may form explosive dust
Vapour pressure:	not determined
Relative density:	No data available
Density:	No data available
Solubility(ies)	
Water solubility:	soluble
Solubility in other solvents:	No data available
Partition coefficient: n-octanol/water	No data available
Ignition temperature:	not determined
Decomposition temperature:	No data available
Viscosity	
- Viscosity, dynamic:	Not applicable
- Viscosity, kinematic:	Not applicable
Explosive properties:	Not applicable
<b>9.2 Other information</b>	
Self-ignition:	No data available

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## 10. Stability and Reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions: None known.

### 10.4 Conditions to avoid

Conditions to avoid: Avoid moisture.

### 10.5 Incompatible materials

Materials to avoid: Strong acids

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity: No data available

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

##### Components:

##### Silicon dioxide:

Acute oral toxicity: LD50 Oral (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

#### Skin corrosion/irritation

**Product:**

Prolonged or repeated contact may dry skin and cause irritation.

**Components:****Silicon dioxide:**

Powder can cause localised skin irritation in folds of the skin or under tight clothing. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin. May cause irritation of respiratory tract.

**Serious eye damage/eye irritation****Product:**

Dust contact with the eyes can lead to mechanical irritation.

**Components:****Silicon dioxide:**

Dust contact with the eyes can lead to mechanical irritation.

**Respiratory or skin sensitisation****Product:**

No known sensitising effect.

**Components:****Silicon dioxide:**

No sensitizing effect known

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro:

No data available

**Carcinogenicity****Product:**

This information is not available.

**Reproductive toxicity****Product:**

Effects on fertility:

No data available

**STOT - single exposure****Product:**

No data available

No data available

**STOT - repeated exposure****Product:**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Further information****Product:**

Health injuries are not known or expected under normal use.

**Components:****Silicon dioxide:**

May cause irritation of the mucous membranes.

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## 12. Ecological Information

### 12.1 Toxicity

**Product:**

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae/aquatic plants: No data available

**Components:****Silicon dioxide:**

Toxicity to fish: LC0 (Fish): > 10.000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

### 12.2 Persistence and degradability

**Product:**

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.

**Components:****Silicon dioxide:**

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation: Not applicable.

**Components:****Silicon dioxide:**

Bioaccumulation: Bioaccumulation is unlikely.

Partition coefficient n-octanol/water: Not applicable.

### 12.4 Mobility in soil

**Product:**

Mobility: No data available

**Components:****Silicon dioxide:**

Mobility: No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment: This substance/mixture contains no components  
Considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:**

**Silicon dioxide:**

Assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects****Product:**

Assessment:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects****Product:**

Additional ecological information:

Should not be released into the environment.  
Ecological injuries are not known or expected under normal use.

**Components:****Silicon dioxide:**

Additional ecological information:

Should not be released into the environment.

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**13. Disposal considerations****13.1 Waste treatment methods**

Product:

Dispose of in accordance with the European Directives on waste and hazardous waste.  
In accordance with local and national regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Disposal must be made according to official legislations  
Disposal must be made according to official legislations

Contaminated packaging:

Dispose of in accordance with local regulations.  
Dispose of as unused product.  
Disposal must be made in according to official regulations  
Disposal must be made in according to official regulations

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**14. Transport Information****14.1 UN number**

Not regulated as a dangerous good

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

### 15. Regulatory Information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtures

Water contaminating class (Germany): WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (4)

#### Other regulations:

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

### 16. Other information

#### Full text of other abbreviations

2004/37/EC:	Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
DE TRGS 900:	Germany. TRGS 900 - Occupational exposure limit values.
2004/37/EC / TWA:	Long term exposure limit
DE TRGS 900 / AGW:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Con-centration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concen-tration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - Interna-tional Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organiza-tion; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Stand-ardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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