

**Product name:** Mica sheets in various forms  
**Document Nr.:** SDS00110018310

**Date:** November 17th 2015  
**Version:** 1.0

## Section 1: Identification of the substance or mixture and the company

### 1.1. Product Identifier

Name: Mica sheets in various manufactured forms      EC #: 310-127-6      CAS #: 12001-26-2

### 1.2 Relevant applications of the material and uses advised against

Substrate material for microscopy and general R&D

### 1.3. Company details

Vof Micro to Nano  
Wateringweg 79  
2031EK Haarlem  
Netherlands  
Tel: +31(0)85-2013155  
E: info@microtonano.com

### 1.4 Emergency telephone number

+31(0)85-2013155 (office hours) Vof Micro to Nano, Netherlands

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

<b>Physical:</b>	0
<b>Health:</b>	1
<b>Flammability:</b>	0
<b>Environment:</b>	None
<b>Other hazards:</b>	None

### Classification according to Regulation EC Nr. 1272/2008

The substance is not classified as hazardous to health or to the environment according to CLP regulation.

### Classification according to 67/548/EEC of 1999/45/EC



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Innovative Microscopy Supplies

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Not applicable

## 2.2 Labeling elements

Not applicable

## 2.3 Other hazards

Under normal handling and use, exposure to solid forms of quartz present few health hazards. Dust or fumes may irritate lungs, eyes or skin. Long-term exposure to respirable quartz dust may cause silicosis or cancer.

## Section 3: Composition / information on components

### 3.1. Substances

Mica sheets in various forms. EC #: 310-127-6 CAS #: 12001-26-2  
Muscovite mica, Potassium Aluminium Silicate, Chemical formula:  $(\text{KF})_2(\text{Al}_2\text{O}_3)_3(\text{SiO}_2)_6(\text{H}_2\text{O})$

### 3.2 Mixtures

Not applicable

## Section 4: First aid measures

### 4.1. Description of first aid measures

Contact with eyes:	Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing.
Contact with skin:	Wash with water and soap. Seek medical attention if irritation persists.
Inhalation:	Fresh air, keep warm and at rest. Seek medical attention if ill effects occur
Ingestion:	If swallowed, do not induce vomiting Seek immediate medical advice

### 4.2. Important symptoms and effects, either immediate or delayed



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Inhalation:	May cause irritation
Ingestion:	No information available
Skin contact:	Powder – irritant
Eye contact:	Powder – irritant

### 4.3. Indication of any immediate medical attention and special treatment

General advise: If you feel unwell, seek medical advice; show product label if possible  
If symptoms persist, always call a doctor

## Section 5: Firefighting Measures

### 5.1. Extinguishing media

Not flammable.

### 5.2 Special hazards arising from the substance or mixture

None expected

### 5.3 Advice to firefighters

Wear self-contained breathing apparatus  
Wear full protective suit.

## Section 6: Accidental release measures

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

Wear protective equipment  
Keep unprotected persons away  
Ensure adequate ventilation

### 6.2 Environmental precautions

Do not allow to enter public sewers and waterways



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## 6.3 Methods and material for containment and clean up

Pick up mechanically

## 6.4 Reference to other sections

For further information see section 7, 8 and 13.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid creating or accumulating dust or fine particles  
Provide adequate ventilation  
Avoid breathing dust or fumes  
Protect against sharp pieces when broken

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, well ventilated place  
Keep away from oxidising agents  
Keep out of reach of children

### 7.3 Specific end uses(s)

Not required

## Section 8: Exposure control and personal protection

### 8.1. Control parameters

#### Occupational exposure limits (OEL)

Ingredient	Material Name	Source	TWA	STEL	Peak	Notes
Mica powder	Muscovite mica	EU	20 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	Not available	Not available



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## 8.2 Exposure controls

Control procedures: Avoid creating dust or fine particles  
Avoid inhaling dusts  
Wash hands before breaks and at the end of the work  
Maintain appropriate working environment

Personal protection: Protective work clothing

Inhalation: Use breathing protection if dusts are present

Hands and skin: Suitable impermeable gloves

Eyes: Wear safety goggles or full face protection

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance/physical state: Solid sheets in various forms

Colour: Ruby, light brown to silver

Odour: None

pH: Not applicable

Melting point/range: 1500°C

Boiling point/range: Not available

Flash point: Not determined

Evaporation rate: Not available

Explosion limits: upper limit: Not determined  
lower limit: Not determined

Vapour pressure: Not applicable

Relative density: 2.6 g/cm<sup>3</sup> @ 20°C

Solubility in water: Not soluble in water

Auto-ignition: Not determined

Viscosity: Not applicable

### 9.2 Other information

None

## Section 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions known if used for its intended purposes



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## 10.2 Chemical stability

Stable under recommended storage conditions

## 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purposes

## 10.4 Conditions to avoid

No information available

## 10.5 Incompatible materials

Not available

## 10.6 Hazardous decomposition products

None expected

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure:

<b>Inhalation:</b>	Heavy exposure to freshly formed mica dust may cause acute reactions. Respirable mica dust can be inhaled and deposited in the lungs and is toxic to lungs and mucous membranes.
<b>Skin contact:</b>	Powder – irritant effect
<b>Eye contact:</b>	Powder – irritant effect
<b>Sensitisation:</b>	No effects known
<b>Carcinogenicity:</b>	Mica in respirable size is known to be carcinogenic
<b>Toxicological data:</b>	No data for LD/LC 50 values

## Section 12: Ecological information



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### 12.1. Aquatic toxicity

No information available

### 12.2 Persistence and degradability

No information available

### 12.3 Bio-accumulative potential

No information available

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT and vPvB assessment

Not applicable

### 12.6 Hazardous decomposition products

No information available

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Product:** This material and its container must be disposed of in a safe way.  
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

**National regulations:** Disposal should be in accordance with local, state or national legislation.

## Section 14: Transport information

### 14.1. UN number

UN-number: N/A



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## 14.2 UN proper shipping name

Proper shipping name: N/A

## 14.3 Transport hazard class(es)

Class: N/A  
ADR/RID-Classification code: N/A

## 14.4 Packing group

Packing: N/A

## 14.5 Incompatible materials

ADR/RID- Environmentally hazardous: N/A  
IMDG-Marine pollutant: N/A  
IATA/ICAO-Environmentally hazardous: N/A

## 14.6 Special precautions for user

ADR/RID-Tunnelcode: N/A  
IMDG-Ems: N/A  
IATA/ICAO-PAX: N/A  
IATA/ICAO-CAO: N/A

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

## Section 15: Regulatory information

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

**TSCA:** All components are listed

### 15.2 Chemical safety assessment

No information available





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## Section 16: Other information

This products should be stored, handled and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.

