

# Safety Data Sheet

## SDS acc. Hazard Communication Standard

REF: 712260.10

NUCLEOSIL 100-5 SB, 10 g, RS PM

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Printing Date: 01.10.2019

Date of Issue: 16.03.2018

### Section 1: Identification

#### 1.1 Product Identifier / Product Name

REF	712260.10
Product Name	NUCLEOSIL 100-5 SB, 10 g, RS PM
-	1 x 10 g NUCLEOSIL® 50-5 ...4000-7 (modified)

#### 1.2 Relevant identified Uses of the Substance or Mixture and Uses advised against

**Relevant identified uses**  
Product for Analytical Use.  
The Exposure scenario is integrated into sections 1-16.

**Uses advised against**  
not described

#### 1.3 Details of the Supplier and of the Safety Data Sheet

**Manufactured by:**  
MACHEREY-NAGEL GmbH & Co. KG  
Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
Tel.: +49 2421 969 0

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#### 1.4 Emergency Telephone Number

Information not necessary.

You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/SDS>

### Section 2: Hazard(s) Identification

#### 2.1 Classification of the Substance(s) or Mixture(s)

10 g NUCLEOSIL® 50-5 ...4000-7 (modified)

Signal Word	Do not need labelling as hazardous
-	-
No Hazard Class	

#### 2.2 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

10 g NUCLEOSIL® 50-5 ...4000-7 (modified)

Do not need labelling as hazardous  
Signal Word: -

#### 2.3 Other Hazards

##### Possible Hazards from physicochemical Properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with GHS directives and EC regulations 1272/2008/EC, 1907/2006/EC for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. ---

##### Information pertaining to particular Risks to Human and possible Symptoms

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##### Information pertaining to particular Risks to the Environment

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##### Other Hazards

It is not possible to declare fine dust (< 12 µm) as dangerous or not. We recommend not to inhale product dust. Dust may cause damage of the inhalatory system if inhaled over a longer period.---

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### Section 3: Composition/Information on Ingredients

#### 3.1 Substances or 3.2 Mixtures

**10 g NUCLEOSIL® 50-5 ...4000-7 (modified)**

Chemical:	<i>silica</i>	CAS No.:	7631-86-9
Classification:	No criteria for classification or naming of chemical is not required.		
Chemical Formula:	SiO <sub>2</sub>		
Synonyms:	silicon dioxide, Diatomite, precipitated amorphous silica		
TSCA Inventory:	listed		
RTECS:	VV7315000	MFCD:	00011232
EC No.:	231-545-4		
Weight Percent:	95 - <100 %		
acc. GHS:	The criteria for classification are not fulfilled.		

#### 3.3 Remarks

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### Section 4: First-Aid Measures

#### 4.1 Description of First-Aid Measures

Place insured person out of danger zone to fresh air immediately.

##### 4.1.1 After SKIN Contact

Remove dust with wetted tissue. Not necessary.

##### 4.1.2 After EYE Contact

Rub dust with teardrops from eyes

##### 4.1.3 After INHALATION of Vapors

Not necessary. After inhalation of dust fresh air should be inhaled.

##### 4.1.4 After ORAL Intake

Not necessary.

#### 4.2 Most important Symptoms and Effects, both acute and delayed

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#### 4.3 Indication of any immediate Medical Attention and Special Treatment needed

No additionally recommendations. ---

### Section 5: Fire-Fighting Measures

#### 5.1 Extinguishable Media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like WATER FOG, WATER SPRAY, alcohol-resistant FOAM, DRY CHEMICAL, CARBON DIOXIDE can be used.

#### 5.2 Special Hazards arising from the Substance or Mixture

None.

#### 5.3 Advice for Firefighters

No, for listed product. Product package burns like paper or plastic.

#### 5.4 Additional Information

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### Section 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedure

Not necessary.

#### 6.2 Environmental Precautions

not necessary

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### 6.3 Methods and Material for Containment and Cleaning up

Clean working area with water. Flush used water into sewer.

### 6.4 Reference to other Sections

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## Section 7: Handling and Storage

### 7.1 Precautions for Safe Handling

### 7.2 Conditions for Safe Storage, including any Incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 13  
Water hazard class (DE): nwg

#### 7.2.1 Conditions for Safe Storage, including any Incompatibilities

Keep original product packages tightly closed during handling and storage.

### 7.3 Specific End Use(s)

Product for analytical use.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

#### 10 g NUCLEOSIL® 50-5 ...4000-7 (modified)

Chemical: *silica*

CAS No.: 7631-86-9

DNEL: [inh] 4 mg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: -  
PNEC = Predicted No Effect Concentration

NIOSH: Occupational Carcinogen List yes; [TWA] 6 mg/m<sup>3</sup>  
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 20 mppcf / 80 mg/m<sup>3</sup>

### 8.2 Exposure Controls

Not necessary.

#### 8.2.1 Respiratory Protection

Not necessary. Use for regular working with dry powders a mask or a dust respirator, class P3.

#### 8.2.2 Hand Protection

Not necessary.

#### 8.2.3 Eye/Face Protection

Not necessary.

#### 8.2.4 Skin Protection

Not necessary.

#### 8.2.5 Hygiene Measures

Information not necessary.

## Section 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

#### 10 g NUCLEOSIL® 50-5 ...4000-7 (modified)

- |    |   |                    |                   |
|----|---|--------------------|-------------------|
| a) | Appearance: powder (solid)              | Color: colorless   | b) Odor: odorless |
| c) | Odor Threshold:                         | data not available |                   |
| d) | pH:                                     | data not available |                   |
| e) | Melting Point:                          | data not available |                   |
| f) | Boiling Point:                          | data not available |                   |
| g) | Flash Point:                            | data not available |                   |
| h) | Evaporation Rate <sub>(ether=1)</sub> : | data not available |                   |
| i) | Flammability (solid, gas):              | data not available |                   |
| j) | Explosive Limits:                       | data not available |                   |
| k) | Vapor Pressure (68°F):                  | data not available |                   |

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l)	Vapor Density <sub>(air=1)</sub> :	data not available
m)	Specific Gravity:	data not available
n)	Soluble in Water:	0 %
o)	Partition Coefficient (o-w):	data not available
p)	Autoignition Temperature:	data not available
q)	Decomposition temperature:	data not available
r)	Viscosity:	data not available
s)	Explosive properties:	data not available
t)	Oxidizing properties:	---
	Particle size:	3-10 µm

### 9.2 Other Information

Relevant Properties of Substance Group

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## Section 10: Stability and Reactivity

### 10.1 Reactivity

None

### 10.2 Chemical Stability

No known instability.

### 10.3 Possibility of Hazardous Reactions

None.

### 10.4 Conditions to avoid

Not known. None ---

### 10.5 Incompatible Materials

None. Not necessary. ---

### 10.6 Hazardous Decomposition Products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## Section 11: Toxicological Information

### 11.1 Information on Toxicological Effects

Following information is valid for pure chemicals.

#### 10 g NUCLEOSIL® 50-5 ...4000-7 (modified)

Chemical:	<i>silica</i>		CAS No.: 7631-86-9
TSCA Inventory:	listed	California Prop. 65 List:	not listed
Exposure Routes:	inhalation, skin and/or eye contact		
Target Organs:	Eyes, respiratory system		
Symptoms:	irritation eyes, pneumoconiosis		
Canada CEPA 1999:	DSL yes		
LD50 <sub>orl rat</sub> :	5000 mg/kg		
LC50 <sub>ihl rat</sub> :	[4h] 140-58 800 mg/m <sup>3</sup>		
LD50 <sub>drm rbt</sub> :	2000-5000 mg/kg		

## Section 12: Ecological Information

### 12.1 Toxicity

Following information is valid for pure chemicals.

#### 10 g NUCLEOSIL® 50-5 ...4000-7 (modified)

Chemical:	<i>silica</i>	CAS No.:	7631-86-9
PNEC <sub>(fresh water)</sub> :	-		
PNEC = Predicted No Effect Concentration			
LC50 <sub>fish/96h</sub> :	[4d] 1033-1289 mg/L		
EC50 <sub>daphnia/48h</sub> :	512; [4d] 2600 mg/L		
EC50 <sub>chlorella vulgaris/5d</sub> :	[4d] 218 mg/L		

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- 12.2 Persistence and Degradability**  
not necessary
- 12.3 Bioaccumulative Potential**  
not necessary
- 12.4 Mobility in Soil**  
not necessary
- 12.5 Results of PBT and vPvB Assessment**  
no data available
- 12.6 Other Adverse Effects**  
no additional data available

### Section 13: Disposal Considerations

Not necessary.

- 13.1 Waste Treatment Methods**  
GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

### Section 14: Transport Information

14.1. -14.4. Not necessary

- 14.5 Environmental Hazards**  
none
- 14.6 Special Precautions for User**  
not necessary
- 14.7 Transport in Bulk according to Annex II of MARPOL and the IBC Code**  
not applicable

### Section 15: Regulatory Information

- 15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture**  
**U.S. Federal Regulations**  
OSHA "A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"  
<https://www.osha.gov/dsg/hazcom/ghs.html>  
29 CFR 1910.1200 Hazard communication.
- 15.2 Chemical Safety Assessment**  
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### Section 16: Other Information

- 16.1 List of Hazard and Precaution Phrases**
- 16.1.1 List of relevant H Phrases**
- 16.1.2 List of relevant P Phrases**
- 16.2 Training Advice**  
Regular safety training.
- 16.3 Recommended Restriction on Use**  
None
- 16.4 Further Information**

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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### 16.5 Sources of Key Data

GHS: EU Regulation 1272/2008/EC on Classification, Labelling and Packaging of Substances and Mixtures, amending and repealing EU Directives 67/548/EEC and 1999/45/EC, and amending EU Regulation 1907/2006/EC

SDS: EU Regulation 453/2010/EU REACH - Requirements for the Compilation of Safety Data Sheets  
KÜHN, BIRETT (German), Data Sheets of Hazardous Substances

#### Revisions/Updates

Reason for Revision: 2016-03 Adaptation of European Regulation 1221/2015/EU

You find our current Versions of SDS in Internet:

<http://www.mn-net.com/SDS> [U.S. English]