

Safety Data Sheet

SDS acc. Hazard Communication Standard

REF: 712260.100
Printing Date: 01.10.2019

NUCLEOSIL 100-5 SB, 100 g
Date of Issue: 16.03.2018

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Section 1: Identification

1.1 Product Identifier / Product Name

REF	712260.100
Product Name	NUCLEOSIL 100-5 SB, 100 g
-	1 x 100 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:
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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)

100 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

100 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

Information pertaining to particular Risks to the Environment

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

100 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 ₂		
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

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

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

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

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

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

Chemical: *silica*

CAS No.: 7631-86-9

DNEL: [inh] 4 mg/m³
 DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): -
 PNEC = Predicted No Effect Concentration

NIOSH: Occupational Carcinogen List yes; [TWA] 6 mg/m³
 [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/m³

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

100 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 _(ether=1) : | 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 _(air=1) :	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

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.

100 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 _{orl rat} :	5000 mg/kg	
LC50 _{ihl rat} :	[4h] 140-58 800 mg/m ³	
LD50 _{drm rbt} :	2000-5000 mg/kg	

Section 12: Ecological Information

12.1 Toxicity

Following information is valid for pure chemicals.

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

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

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]