# CHEREY-NAGE



# Safety Data Sheet

# according to Regulations REACh 1907/2006/EC

REF: 815380.25	Silica gel 60 0,04-0,063 mm, 25 kg	Page: 1/8
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# SECTION 1: Identification of the substance/mixture and of the company

1.1 **Product identifier** REF 815380.25 Product name Silica gel 60 0,04-0,063 mm, 25 kg REACH Registration number(s): see SECTION 3.1/3.2 or A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration. 1 x 25 kg Silica gel 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses a. Product for analytical use. Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. b. Product used as cleaning and filtration aid. Codes: SU 3, 9, 23, PC 2, 20, 29, 37, PROC 3, 5, ERC 4, 8a, 8b This exposure scenario is also integrated into sections 1-16. Uses advised against not described 1.3 Details of the supplier of the safety data sheet Manufactured by: MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany E-mail: sds@mn-net.com (msds@mn-net.com) Phone: +49 2421 969 0 1.4 **Emergency telephone number** Information not necessary. You find our current versions of SDS in Internet: <http://www.mn-net.com/SDS> SECTION 2: Hazard identification 2.0 Classification of the complete product according to Regulation (EC) 1272/2008 Hazard identification Hazard classes/categories 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008 25 kg Silica gel Do not need labelling as hazardous Signal word No hazard class List of H phrases: see section 16.2 2.2 Label elements according regulation (EC) 1272/2008 25 kg Silica gel Do not need labelling as hazardous Signal word: -Label elements of the complete product



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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 EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations 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 Avoid inhalation of dust.

Information pertaining to particular risks to the environment

**PBT:**not applicable**vPvB:**not applicable

#### Possible endocrine disrupting effects

no data available

#### 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.

### **SECTION 3: Composition / information on ingredients**

#### 3.1 Substances or 3.2 Mixtures

#### 25 kg Silica gel

Substance name:	silica
CAS No.:	7631-86-9
Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.:	No criteria for classification or naming of chemical not required. SiO 2 Silicagel, Siliziumdioxyd 01-2119379499-16-0166 231-545-4 95 - <100 %
Concentration:	95 - < 100 %
acc. CLP (GHS):	The criteria for classification are not fulfilled.

#### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of H and P phrases: see section 16.2.

### **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.

   4.1.2
   After EYE Contact Rub dust with teardrops from eyes

   4.1.3
   After INHALATION of vapours
- After inhalation of dust fresh air should be inhaled. ---
- 4.1.4 After ORAL Intake no data available
- **4.2 Most important symptoms and effects, both acute and delayed** There are no known delayed symptoms or effects for this product.
- **4.3** Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---



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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- 5.1.1 Suitable extinguishing 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 FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used. 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 FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.
- 5.1.2 Unsuitable extinguishing media no data available
- 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 no data available

## SECTION 6: Accidental release measures

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

Avoid dusting. Do not breathe dust.

#### 6.2 **Environmental precautions**

**PBT**. not applicable vPvB: not applicable

#### 6.3 Methods and material for containment and cleaning up

Remove remaining dust with a vacuum cleaner. If there is no vacuum cleaner, wet dust well and remove mechanical (Inhalation protection). Clean working area with water. Flush used water into drains.

#### 6.4 Reference to other sections

no data available

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid dusting

7.2.1

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

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12 1 Storage class (VCI). 13

	Storage class (VOI).	15
	Water hazard class (DE):	nwg
1	Requirements for stock rooms and containers	

Keep original product packages tightly closed during handling and storage.

#### 7.3 Specific end use(s)

a. Product for analytical use.

b. Product used as cleaning and filtration aid.

## **SECTION 8: Exposure controls /personal protection**

#### 8.1 Control parameters

25 kg Silica gel Chemical: silica DNEL: [inh] 4 mg/m<sup>3</sup> DNFL = Derived No-Effect Level (for workers) PNEC (fresh water): PNEC = Predicted No Effected Concentration 1,25 A / 4 E mg/m<sup>3</sup> TRGS 900 (DE): A/a aveoles passing, E/e respirable, G total

Short-term exposure factor: Y



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CAS No.: 7631-86-9



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	SUVA(CH) MAK value: NIOSH:	respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y 4 e mg/m <sup>3</sup> Occupational Carcinogen List yes; [TWA] 6 mg/m <sup>3</sup> ed average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-r [TWA] 20 mppcf / 80 mg/m <sup>3</sup>	
	USHA.		
8.2	Exposure controls Not necessary.		
8.2.1	<b>Respiratory protectio</b> Not necessary. Use for dust mask or a dust pro	dusty working a dust mask or a dust protection filter, class P1. Use for regu	ularly working with dry powders a
8.2.2	Skin protection / Han Not necessary, recomm		
8.2.3	Eye / Face Protection Not necessary.		
8.2.4	Skin protection Not necessary.		
8.2.5	Personal hygiene Information not necess	ary.	
8.2.6	Thermal hazards no data available		
8.3	Limitation and monit Information not necessary.	oring of environmental exposure	
SEC	FION 9: Physical and	d chemical properties	
9.1	Information on basic	physical and chemical properties	
	25 kg Silica gel		

25 kg Shica gei	
a) State of aggregation:	powder (solid)
b) Colour:	white
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	1600 °C
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	5-9
I) Kinematic viscosity:	no data available
m) Solubility in water:	<< 1 %
n) Dispersion coefficient (K o/w):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	25-40 / >40 μm

### 9.2 Other information

9.2.1 Information on physical hazard classes no data available

#### 9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

no data availab



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# **MACHEREY-NAGEL**



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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 Not known.
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.
SECT	ION 11: Toxicological information
11.1	Information on the hazard classes according regulation (EC) 1272/2008 Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

25 kg Silica gel silica Chemical: CAS No.: 7631-86-9 **TSCA** Inventory: listed California Proposition 65 List: not listed Exposure Routes: inhalation, skin and/or eye contact Target Organs: Eyes, respiratory system Symptoms: irritation eyes, pneumoconiosis Australia NICNAS: not listed Canada CEPA 1999: DSL yes not listed, Japan PDSCL: not listed Japan CSCL/PRTR: Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required) South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31032 LD50 orl rat : 5000 mg/kg LC50 ihl rat : 2,19-5,01 mg/L/4H Avoid inhalation of dust. TRGS 905 (DE): RFC

#### 11.2 Other hazards

Possible endocrine disrupting effects no data available Other information no additional data available

# **SECTION 12: Ecological information**

Storage class (VCI):

### 12.1 Toxicity

Following information is valid for pure substances.

 25 kg Silica gel
 CAS-Nr.: 7631-86-9

 Substance name:
 silica
 CAS-Nr.: 7631-86-9

 PNEC (fresh water):

 PNEC = Predicted No Effected Concentration = concentration at which no effect on the environment is expected
 LC50 fish/96h :

 LC50 fish/96h :
 [4d] 1033-1289 mg/L

 EC50 daphnia/48h :
 512; [4d] 2600 mg/L

 EC50 chlorella vulgaris/5d :
 [4d] 218 mg/L

 Water hazard class (DE):
 nwg
 WGK No.: 0849

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### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

#### 12.4 Mobility in soil

12.5 Results of PBT and vPvB 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 Endocrine disrupting properties

no data available

# 12.7 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 Carriage in bulk by sea in accordance with IMO instruments Not applicable.

## **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020 Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017 If necessary, observe other country-specific regulations.

# 15.2 Chemical safety assessment no data available

## **SECTION 16: Other information**

- 16.1 Changes compared to the last version in preparation
- 16.2 List of H and P phrases
- 16.2.1 List of relevant H phrases H in preparation
- 16.2.2 List of relevant P phrases
- 16.3 Recommended restriction on use None



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#### 16.4 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 97/69/EG, mineral fibersDirective 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

TRGS 521, German engineering regulations for rehabilitation, repair and demolition with old mineral wool, February 2008, TRGS 521 "Mineral fibres" in the new versionSUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

TRGS 559, German technical rules for mineral dusts from July 2011 Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP) Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP) TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP) Regulation 182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

## revisions/updates

Reason for revision:

on: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary 2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

#### 16.5 Further information

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#### 16.6 Legend / Abbreviations

acc: ADR: Act: BAT: CAO: Carc: CAS: CLP: CMR: Corr: COD: CSCL: Dam: DNEL: derm: dog: EC10: EC: EC-Nr: EMS: EU: fish:	according Convention concerning the International Carriage of Dangerous Goods by Road acute biological workplace tolerance value Cargo Aircraft Only carcinogen Chemical Abstracts Service Classification, Labelling and Packaging regulation carcinogen, mutagen, reproduction toxic corrosive chemical oxigen demand Chemical Substance Control Law (Jp) damage Derived No-Effect Level (for workers) dermal dog Concentration causing a toxic effect in 10% of the test organisms European Community Substance number of the EC substance inventory Guide to accident management measures on ships European Union fish (not spezified)
EU:	European Union
GHS: gpg:	Global Harmonized System of Classification and Labeling of Chemicals guinea pig
ICAO: ihl:	International Civil Aviation Organization inhaled



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IMDG:	International Maritime Dangerous Goods Code	
intrav:	intravenous	
ipt:	intraperitonaeal	
İSHL:	Industrial Safety and Health Law (Jp)	
LC50:	letale concentration 50%	
LD50:	letale dosis 50%	
leuciscus idus		
MAK:	maximum workplace concentration	
Met:	Metall	
mus:	mouse	
Muta:	mutagen	
NIOSH:	National Institute for Occupational Safety and Health (US)	
NRD:	Non-rapidly degradable	
onchorhynchu		
orl: oral		
OSHA:	Occupational Safety and Health Administration	
PAX:	transport on passenger planes allowed	
PBT:	persistent, bioaccumulating, toxic substance	
pH:	pH value	
pimephales p		
PNEC:	Predicted No Effected Concentration	
PROC 15:	Process category 'for laboratory use'	
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)	
PVC:	polyvinyl chloride	
quail:	bird, guail	
rat:	rat	
rbt:	rabbit	
RD:		
RE:	rapidly degradable	
REACh:	repeated Registration Evaluation Authorization and Restriction of Chemicala	
	Registration, Evaluation, Authorisation and Restriction of Chemicals	
REF:	item number, reference number	
Reg.No.:	rRegistration number	
Repr:	harmful to reproduction	
Resp:	respiratory	
RIP:	REACH Implementations Projects	
scu:	sub cutan	
SDS:	safety data sheet	
Sens:	sensitisation	
STEL:	short term exposure limit	
STOT:	Specific Target Organ Toxicity	
SVHC:	Substance of Very High Concern	
t/a:	tons per year	
TCCA:	Toxic Chemicals Control Act (S. Korea)	
Tox:	toxic	
TSCA:	The Toxic Substances Control Act (US)	
TWA:	time weighted average	
TRGS:	technical regulations (DE)	
vPvB:	very persistent, very bioaccumulating substance	
The industry and size		

### 16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.



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