

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 730973	Chromab. QuEChERS Mix IV (1.065 g)	Page: 1/9
Printing date: 13.01.2023	Date of issue: 18.07.2022	Version: 2.2.2.2

## SECTION 1: Identification of the substance/mixture and of the company

### 1.1 Product identifier

REF 730973  
 Product name Chromab. QuEChERS Mix IV (1.065 g)

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.  
 50 x 1,065 g Chromabond® QuEChERS Mix IV

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses**  
 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.  
**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  
 Phone: +49 2421 969 0  
 E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Information not necessary.  
 You find our current versions of SDS in Internet:

<<http://www.mn-net.com/SDS>>

Lieferant / Supplier:  
 Carl Roth GmbH + Co KG  
 Schöpperlenstr. 3-5  
 76185 Karlsruhe, Germany  
 +49 721 5606 0  
 sicherheit@carlroth.de

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008

### 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

**1,065 g Chromabond® QuEChERS Mix IV**  
 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

**1,065 g Chromabond® QuEChERS Mix IV**  
 Do not need labelling as hazardous  
 Signal word: -

### Label elements of the complete product

### 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.



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**Information pertaining to particular risks to human and possible symptoms**

**Information pertaining to particular risks to the environment**

**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

#### 1,065 g Chromabond® QuEChERS Mix IV

Substance name: *magnesium sulfate*  
CAS No.: 7487-88-9

Substance rating: No criteria for classification or naming of chemical not required.  
Formula: MgSO<sub>4</sub>  
REACH Reg. No.: 01-2119486789-11-xxxx  
EC No.: 231-298-2  
Concentration: 80 - <97 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

Substance name: *activated charcoal*  
CAS No.: 7440-44-0

Substance rating: No criteria for classification or naming of chemical not required.  
Formula: C<sub>n</sub>  
REACH Reg. No.: 01-2119966900-32-xxxx  
EC No.: 231-153-3  
Concentration: 1 - <10 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

Substance name: *silica*  
CAS No.: 7631-86-9

Substance rating: No criteria for classification or naming of chemical not required.  
Formula: SiO<sub>2</sub>  
Pseudonym (de): Silicagel, Siliziumdioxid  
REACH Reg. No.: 01-2119379499-16-0166  
EC No.: 231-545-4  
Concentration: 10 - <20 %  
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



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After inhalation of dust fresh air should be inhaled. ---

**4.1.4 After ORAL Intake**

**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: 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**

## SECTION 6: Accidental release measures

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

Avoid dusting. Do not breathe dust. .

**6.2 Environmental precautions**

not necessary

**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**

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Avoid dusting.

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

Safe storage is guaranteed in the original packaging . Storage class (German chemical industry): see chapter 12.1

**Storage class (VCI):** 11

**Water hazard class (DE):** 1

**7.2.1 Requirements for stock rooms and containers**

Keep original product packages tightly closed during handling and storage.

**7.3 Specific end use(s)**

Product for analytical use.



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## SECTION 8: Exposure controls /personal protection

### 8.1 Control parameters

**1,065 g Chromabond® QuEChERS Mix IV**

Chemical: *magnesium sulfate*

CAS No.: 7487-88-9

DNEL: [inh] 37.6 mg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.68 mg/L  
PNEC = Predicted No Effect Concentration

Chemical: *activated charcoal*

CAS No.: 7440-44-0

Chemical: *silica*

CAS No.: 7631-86-9

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

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

TRGS 900 (DE): 1,25 A / 4 E mg/m<sup>3</sup>  
E/e respirable

Short-term exposure factor: Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 4 e mg/m<sup>3</sup>

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 regularly working with dry powders a dust mask or a dust protection filter, class P3.

#### 8.2.2 Skin protection / Hand protection

Not necessary, recommended for often use.

#### 8.2.3 Eye / Face Protection

Not necessary.

#### 8.2.4 Skin protection

Not necessary.

#### 8.2.5 Personal hygiene

Information not necessary.

#### 8.2.6 Thermal hazards

no data available

### 8.3 Limitation and monitoring of environmental exposure

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**1,065 g Chromabond® QuEChERS Mix IV**

a) State of aggregation:	powder (solid)
b) Colour:	slightly grey
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
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:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (o/w):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available



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q) Relative vapour density (air=1) :

no data available

r) Particle size:

no data available

## 9.2 Other information

Properties relevant to substance groups

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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.

### 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.

## SECTION 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.

#### 1,065 g Chromabond® QuEChERS Mix IV

Chemical: *magnesium sulfate*

CAS No.: 7487-88-9

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-22752

Chemical: *activated charcoal*

CAS No.: 7440-44-0

TSCA Inventory: listed

LD50 orl rat : > 5000 mg/kg

LD50 orl mus : > 5000 mg/kg

Chemical: *silica*

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

Japan CSCL/PRTR: not listed, Japan PDSC: not listed

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

TRGS 905 (DE): R F C



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## 11.2 Other hazards

### Possible endocrine disrupting effects

no data available

### Other information

no additional data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 1,065 g Chromabond® QuEChERS Mix IV

Chemical: *magnesium sulfate*

CAS No.: 7487-88-9

PNEC (fresh water): 0.68 mg/L

PNEC = Predicted No Effect Concentration

LC50 pimephales promelas/96h: 680 MgX mg/L

LC50 fish/96h: [4d] 0.68; [48h] 0.72 mg/L

EC50 daphnia/48h: 720 MgX mg/L

EC50 chlorella vulgaris/5d: [18d] 2700 mg/L

Water hazard class (DE): 1

Storage class (VCI): 12-13

Chemical: *activated charcoal*

CAS No.: 7440-44-0

Water hazard class (DE): nwg

Storage class (VCI): 11

Chemical: *silica*

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

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

Storage class (VCI): 13

### 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

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.



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## 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**  
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**

## 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**
  - 16.2.2 List of relevant P phrases**
- 16.3 Recommended restriction on use**  
None
- 16.4 Sources of key data**  
KÜHN, BIRETT, Leaflets on hazardous materials, 2021  
Directive 97/69/EG, mineral fibers Directive 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 version SUVA .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 progress Text (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 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG  
Regulation 1182/2020/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 1, 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)

**revisions/updates**

*Reason for revision:* 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



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## 16.5 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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## 16.6 Legend / Abbreviations

acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only
Carc:	carcinogen
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging regulation
CMR:	carcinogen, mutagen, reproduction toxic
Corr:	corrosive
COD:	chemical oxigen demand
CSCL:	Chemical Substance Control Law (Jp)
Dam:	damage
DNEL:	Derived No-Effect Level (for workers)
derm:	dermal
dog:	dog
EC10:	Concentration causing a toxic effect in 10% of the test organisms
EC:	European Community
EC-Nr:	Substance number of the EC substance inventory
EmS:	Guide to accident management measures on ships
EU:	European Union
fish:	fish (not spezified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitoneal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus:	fisch, ide, orfe
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchus mykiss:	fish, rainbow trout
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT:	persistent, bioaccumulating, toxic substance
pH:	pH value
pimephales promelas:	fish, fathead minnow
PNEC:	Predicted No Effect Concentration
PROC 15:	Process category 'for laboratory use'
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)
PVC:	polyvinyl chloride
quail:	bird, quail
rat:	rat
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number





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- 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

## 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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