

Safety Data Sheet

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

REF: 730996.2

Chromab. QuEChERS Mix XVII (0.25 g), 2mL

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 730996.2
Product name Chromab. QuEChERS Mix XVII (0.25 g), 2mL

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 0.25 g Chromabond® QuEChERS Mix XVII/2 mL

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
Valenciener 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

0.25 g Chromabond® QuEChERS Mix XVII/2 mL

Signal word Do not need labelling as hazardous
-

No hazard class

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

0.25 g Chromabond® QuEChERS Mix XVII/2 mL

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

0.25 g Chromabond® QuEChERS Mix XVII/2 mL

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

Substance rating: No criteria for classification or naming of chemical not required.
Formula: C_n
REACH Reg. No.: 01-2119966900-32-xxxx
EC No.: 231-153-3
Concentration: 10 - <30 %
acc. CLP (GHS): The criteria for classification are not fulfilled.

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

Substance rating: No criteria for classification or naming of chemical not required.
Formula: MgSO₄
REACH Reg. No.: 01-2119486789-11-xxxx
EC No.: 231-298-2
Concentration: 50 - <80 %
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: SiO₂
Pseudonym (de): Silicagel, Siliziumdioxyd
REACH Reg. No.: 01-2119379499-16-0166
EC No.: 231-545-4
Concentration: 20 - <30 %
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

0.25 g Chromabond® QuEChERS Mix XVII/2 mL

Chemical: *activated charcoal* CAS No.: 7440-44-0

Chemical: *magnesium sulfate* CAS No.: 7487-88-9

DNEL: [inh] 37.6 mg/m³
DNEL = Derived No-Effect Level (for workers)

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

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

TRGS 900 (DE): 1,25 A / 4 E mg/m³
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/m³

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 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

0.25 g Chromabond® QuEChERS Mix XVII/2 mL

| | |
|--------------------------------------|-------------------|
| 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

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.

0.25 g Chromabond® QuEChERS Mix XVII/2 mL

Chemical: *activated charcoal* CAS No.: 7440-44-0
 TSCA Inventory: listed
 LD50 orl rat : > 5000 mg/kg
 LD50 orl mus : > 5000 mg/kg

Chemical: *magnesium sulfate* CAS No.: 7487-88-9
 TSCA Inventory: listed
 Korea Exist.Chem.Inventory: KE-22752

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.

| | | |
|--|----------------------------|--------------------|
| 0.25 g Chromabond® QuEChERS Mix XVII/2 mL | | |
| Chemical: | <i>activated charcoal</i> | CAS No.: 7440-44-0 |
| Water hazard class (DE): | nwg | |
| Storage class (VCI): | 11 | |
| | | |
| Chemical: | <i>magnesium sulfate</i> | 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: | <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 | |
| 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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