

Printing date 08/19/2019 Reviewed on 08/19/2019

1 Identification

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article except as noted in section 15 where components of the filter body are also considered. Section 15 includes REACH and Proposition 65 warnings regarding the presence of Lead in brass alloys in the fittings or fitting plugs.
 Product identifier: Gas purifying filter
 Trade name: <u>CRS ZPure Glass High Sensitivity Moisture Trap</u>
 Part numbers:

 202283-B
 202284-SS
 202284-B-QC
 202283R-SS
 202283R-B-QC
 202284R-SS-QC

 202283-SS
 202283-B-QC
 202284-SS-QC
 202284R-B
 202283R-SS-QC
 202283R-B-QC

 202284-B
 202283-SS-QC
 202283R-B
 202284R-SS
 202283R-B-QC
 202283R-B-QC

 202284-B
 202283-SS-QC
 202283R-B
 202284R-SS
 202283R-SS-QC
 202283R-SS-QC

· SDS number: 991075

· Application of the substance / the mixture Gas purification

 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Chromatography Research Supplies, Inc. 2601 Technology Drive Louisville, KY 40299 USA sds@chromres.com

Information department: Product safety department
Emergency telephone number: From U.S.A., Canada, Puerto Rico and U.S. Virgin Islands
+1-502-491-6300 8 am - 5 pm East Coast U.S. Time
+1-800-255-3924 ChemTel (24 Hours) Contract Number MIS3660977
From Outside the U.S.A., Canada, Puerto Rico or U.S. Virgin Islands
+01-813-248-0585 ChemTel (24 Hours)
Additional In-Country numbers: China: 400-120-0751; Brazil: 0-800-591-6042; India: 000-800-100-4086; Mexico: 01-800-099-0731.

2 Hazard(s) identification

· Classification of the substance or mixture



Carc. 1A H350 May cause cancer.

· Label elements

• *GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).* • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: Quartz (SiO2)
Hazard statements H350 May cause cancer.

(Contd. on page 2)

Printing date 08/19/2019

Reviewed on 08/19/2019

Trade name: CRS ZPure Glass High Sensitivity Moisture Trap

	(Cont	d. of page
· Precautionary statements		
<i>Obtain special instructions before use.</i> <i>Do not handle until all safety precautions have been read and understood.</i>		
Wear protective gloves/protective clothing/eye protection/face protection.		
<i>IF exposed or concerned: Get medical advice/attention.</i>		
Store locked up.		
Dispose of contents/container in accordance with local/regional/national/international	al regulations.	
· Classification system: · NFPA ratings (scale 0 - 4)		
· NFPA raungs (scale 0 - 4)		
Health = 0		
Fire = 0		
$\mathbf{U} = \mathbf{U}$ <i>Reactivity</i> = 0		
· HMIS-ratings (scale 0 - 4)		
HEALTH TO Health = $*0$		
FIRE 0 Fire = 0		
REACTIVITY Reactivity = 0		
• Other hazards		
· Results of PBT and vPvB assessment		
• <i>PBT:</i> Not applicable.		
• vPvB: Not applicable.		
3 Composition/information on ingredients		
5 Composition/information on ingreatents		
· Chemical characterization: Mixtures		
• Description: Mixture of the substances listed below with nonhazardous additions.		
· Dangerous components:		
10034-96-5 Manganese(II)-sulfate-Monohydrate		1-5%
14808-60-7 Quartz (SiO2)	🚸 Carc. 1A, H350	<2%
Additional Components		
1318-02-1 Zeolite		60-90%

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

• Extinguishing media

- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

Printing date 08/19/2019

Reviewed on 08/19/2019

Trade name: CRS ZPure Glass High Sensitivity Moisture Trap

• Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

· Environmental precautions: No special measures required.

• *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

• Protective Action Criteria for Chemicals

· PAC-1:

10034-96-5 Manganese(II)-sulfate-Monohydrate	9.2 mg/m ³
14808-60-7 Quartz (SiO2)	0.075 mg/n
PAC-2:	
10034-96-5 Manganese(II)-sulfate-Monohydrate	15 mg/n
14808-60-7 Quartz (SiO2)	33 mg/n
PAC-3:	
10034-96-5 Manganese(II)-sulfate-Monohydrate	90 mg/m
14808-60-7 Quartz (SiO2)	200 mg/m

7 Handling and storage

· Handling:

· Precautions for safe handling

• Do not open cartridge. Contents may become hot on exposure to water.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires: Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

• Further information about storage conditions: Keep receptacle tightly sealed.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

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(Contd. of page 2)

Printing date 08/19/2019

Reviewed on 08/19/2019

Trade name: CRS ZPure Glass High Sensitivity Moisture Trap

	(Contd. of page 3)
· Control parameters	
Components with limit values that require monitoring at the workplace:	
10034-96-5 Manganese(II)-sulfate-Monohydrate	
PEL Ceiling limit value: 5 mg/m ³ as Mn	
REL Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ as Mn	
TLV Long-term value: 0.02* 0.1** mg/m ³ as Mn; *respirable **inhalable fraction	
14808-60-7 Quartz (SiO2)	
PEL Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m3/%SiO2+2	
REL Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A	
TLV Long-term value: $0.025* \text{ mg/m}^3$ *as respirable fraction	
• Additional information: The lists that were valid during the creation were used as basis.]
 Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer respiratory protective device that is independent of circulating air. Protection of hands: 	er exposure use
Protective gloves	
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degrada	
 Material of gloves Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of qu from manufacturer to manufacturer. As the product is a preparation of several substances, the resistant material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of alove material 	uality and varies

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • *Eye protection:* • *Safety glasses with side shields*

(Contd. on page 5)

Printing date 08/19/2019

Reviewed on 08/19/2019

Trade name: CRS ZPure Glass High Sensitivity Moisture Trap

(Contd. of page 4)

Physical and chemical proper	
· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Solid
Color:	According to product specification
· Odor:	Odorless
• Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	370 °C (698 °F)
Decomposition temperature:	Not determined.
• Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
• Density at 20 •C (68 •F):	0.8 g/cm ³ (6.7 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Insoluble.
Partition coefficient (n-octanol/wat	ter): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
VOC content:	0.00 %
• Other information	No further relevant information available.

10 Stability and reactivity

• **Reactivity** No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

(Contd. on page 6)

Printing date 08/19/2019

Reviewed on 08/19/2019

Trade name: CRS ZPure Glass High Sensitivity Moisture Trap

· Hazardous decomposition products: No dangerous decomposition products known.

(Contd. of page 5)

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11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

1318-02-1 Zeolite

14808-60-7 Quartz (SiO2)

· NTP (National Toxicology Program)

14808-60-7 Quartz (SiO2)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential Does not accumulate in organisms
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation:* Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

(Contd. on page 7)

Printing date 08/19/2019

Reviewed on 08/19/2019

Trade name: CRS ZPure Glass High Sensitivity Moisture Trap

(Contd. of page 6)

14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
· UN ''Model Regulation'':	Void	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH Notification: In conformance to REACH Regulation (EC) No 1907/2006 of the European Parliament and of the Council, this is notification that purifiers made by CRS include components machined from copper alloys containing lead (Brass) above the 0.1% w/w threshold, where it is an integral part of the Article. Included products are the fittings and / or fitting plugs. Copper alloys such as brass in it's solid form and under normal conditions do not present an inhalation, ingestion or contact health hazard of the regulated substance. Operations such as welding, excessive heating or dust generating activities, such as machining, may create a health hazard. Under normal use, CRS' products are not designed or anticipated to release these regulated substances.

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

10034-96-5 Manganese(II)-sulfate-Monohydrate

· TSCA (Toxic Substances Control Act):

1327-43-1 Magnesium aluminosilicate clay

· Hazardous Air Pollutants

14808-60-7 Quartz (SiO2)

10034-96-5 Manganese(II)-sulfate-Monohydrate

· Proposition 65



WARNING: This product can expose you to chemicals including quartz (SiO2), which is known to the State of California to cause cancer, and lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Chemicals known to cause cancer:

14808-60-7 Quartz (SiO2)

(Contd. on page 8)

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(Contd. of page 7)

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/19/2019

Reviewed on 08/19/2019

Trade name: CRS ZPure Glass High Sensitivity Moisture Trap

• Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

10034-96-5 Manganese(II)-sulfate-Monohydrate

· TLV (Threshold Limit Value established by ACGIH)

14808-60-7 Quartz (SiO2)

·NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO2)

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

- Hazard-determining components of labeling: Quartz (SiO2)
- · Hazard statements

Harmful to aquatic life with long lasting effects.

H350 May cause cancer.

Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing SDS: Product safety department

· Contact: Product Safety Department

· Date of preparation / last revision 08/19/2019 / -

(Contd. on page 9)

Printing date 08/19/2019

Reviewed on 08/19/2019

Trade name: CRS ZPure Glass High Sensitivity Moisture Trap

(Contd. of pa	(ge 8
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the Internat	ional
Transport of Dangerous Goods by Rail)	
ICAO: International Civil Aviation Organisation	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carria	ge of
Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Carc. 1A: Carcinogenicity – Category 1A	
* Data compared to the previous version altered.	
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