

**1 Identification**

· **Product identifier:** Gas purifying filter

· **Trade name:** CRS SPure™ H2O Filters

· **Part numbers:**

|                 |                 |                |                 |                  |                |                 |
|-----------------|-----------------|----------------|-----------------|------------------|----------------|-----------------|
| 202238-4-PC     | 202238L-6-PC    | 202238RD-B     | 202238R-SS-QC   | 202238XLRP-B-QC  | 202239L-SS-QC  | 202239RXL-B     |
| 202238-6-PC     | 202238L-B       | 202238RD-B-QC  | 202238RXL-4-PC  | 202238XLRP-SS-QC | 202239R-B      | 202239RXL-B-QC  |
| 202238-B        | 202238L-B-QC    | 202238RD-SS    | 202238RXL-6-PC  | 202238XL-SS      | 202239R-B-QC   | 202239RXL-SS    |
| 202238-B-QC     | 202238LRP-B-QC  | 202238RD-SS-QC | 202238RXL-B     | 202238XL-SS-QC   | 202239RD-B     | 202239RXL-SS-QC |
| 202238D-4-PC    | 202238LRP-SS-QC | 202238RL-4-PC  | 202238RXL-B-QC  | 202239-B         | 202239RD-B-QC  | 202239-SS       |
| 202238D-6-PC    | 202238L-SS      | 202238RL-6-PC  | 202238RXL-SS    | 202239-B-QC      | 202239RD-SS    | 202239-SS-QC    |
| 202238D-B       | 202238L-SS-QC   | 202238RL-B     | 202238RXL-SS-QC | 202239D-B        | 202239RD-SS-QC | 202239XL-B      |
| 202238D-B-QC    | 202238R-4-PC    | 202238RL-B-QC  | 202238-SS       | 202239D-B-QC     | 202239RL-B     | 202239XL-B-QC   |
| 202238DRP-B-QC  | 202238R-6-PC    | 202238RL-SS    | 202238-SS-QC    | 202239D-SS       | 202239RL-B-QC  | 202239XL-SS     |
| 202238DRP-SS-QC | 202238R-B       | 202238RL-SS-QC | 202238XL-4-PC   | 202239D-SS-QC    | 202239RL-SS    | 202239XL-SS-QC  |
| 202238D-SS      | 202238R-B-QC    | 202238RP-B-QC  | 202238XL-6-PC   | 202239L-B        | 202239RL-SS-QC | 202298          |
| 202238D-SS-QC   | 202238RD-4-PC   | 202238RP-SS-QC | 202238XL-B      | 202239L-B-QC     | 202239R-SS     |                 |
| 202238L-4-PC    | 202238RD-6-PC   | 202238R-SS     | 202238XL-B-QC   | 202239L-SS       | 202239R-SS-QC  |                 |

· **SDS number:** 991041

· **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**



GHS08

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**



GHS08

· **Signal word** Danger

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Printing date 08/28/2017

Reviewed on 08/23/2017

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- **Hazard-determining components of labeling:**

- Quartz (SiO<sub>2</sub>)

- **Hazard statements**

- 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.

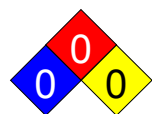
- IF exposed or concerned: Get medical advice/attention.

- Store locked up.

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

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

|            |                            |  |                |     |
|------------|----------------------------|--|----------------|-----|
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) |  | Carc. 1A, H350 | <2% |
|------------|----------------------------|--|----------------|-----|

- **Additional Components**

|            |   |        |
|------------|---|--------|
| 1318-02-1  | Zeolite   | 60-90% |
| 7631-86-9  | Silicon dioxide, chemically prepared  | 15-45% |
| 1327-43-1  | Magnesium aluminosilicate clay  | 5-15%  |
| 7786-30-3  | Magnesium Dichloride  | <1%    |
| 10125-13-0 | Copper (II) chloride dihydrate  | <0.1%  |
|            | Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2B, H320; Aquatic Acute 3, H402 |        |

### 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.

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

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **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.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

### 14808-60-7 Quartz (SiO<sub>2</sub>)

|     |   |
|-----|---|
| PEL | see Quartz listing  |
| REL | Long-term value: 0.05* mg/m <sup>3</sup><br>*respirable dust; See Pocket Guide App. A |
| TLV | Long-term value: 0.025* mg/m <sup>3</sup><br>*as respirable fraction                  |

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- **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 exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



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/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **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

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## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|                        |                                    |
|------------------------|------------------------------------|
| <b>Form:</b>           | Solid                              |
| <b>Color:</b>          | According to product specification |
| <b>Odor:</b>           | Characteristic                     |
| <b>Odor threshold:</b> | Not determined.                    |
- **pH-value:** Not applicable.
- **Change in condition**

|                                     |               |
|-------------------------------------|---------------|
| <b>Melting point/Melting range:</b> | Undetermined. |
| <b>Boiling point/Boiling range:</b> | 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.

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- |  |                      |
|--|----------------------|
| <b>· Explosion limits:</b>   |                      |
| <b>Lower:</b>  | Not determined.      |
| <b>Upper:</b>  | Not determined.      |
| <b>· Vapor pressure:</b> Not applicable.                                 |                      |
| <b>· Density at 20 °C (68 °F):</b> 0.8 g/cm <sup>3</sup> (6.676 lbs/gal) |                      |
| <b>· Relative density:</b> Not determined.                               |                      |
| <b>· Vapor density:</b> Not applicable.                                  |                      |
| <b>· Evaporation rate:</b> Not applicable.                               |                      |
| <b>· Solubility in / Miscibility with Water:</b> Insoluble.              |                      |
| <b>· Partition coefficient (n-octanol/water):</b> Not determined.        |                      |
| <b>· Viscosity:</b>  |                      |
| <b>Dynamic:</b>  | Not applicable.      |
| <b>Kinematic:</b>  | Not applicable.      |
| <b>· Solvent content:</b>  |                      |
| <b>Organic solvents:</b>   | 0.0 %                |
| <b>VOC content:</b>  | 0.0 g/l / 0.00 lb/gl |
| <b>· Other information:</b> 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.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 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                              | 3 |
| 7631-86-9  | Silicon dioxide, chemically prepared | 3 |
| 14808-60-7   | Quartz (SiO <sub>2</sub> )           | 1 |

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· **NTP (National Toxicology Program)**14808-60-7 Quartz (SiO<sub>2</sub>)

K

· **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:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.

## 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.

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- |   |                 |
|---|-----------------|
| · <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   | Void            |

## 15 Regulatory information

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

|  |
|--|
| · <b>Section 355 (extremely hazardous substances):</b> |
|--|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|  |
|--|
| · <b>Section 313 (Specific toxic chemical listings):</b> |
|--|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|   |
|---|
| · <b>TSCA (Toxic Substances Control Act):</b> |
|---|

|           |                                      |
|-----------|--------------------------------------|
| 7631-86-9 | Silicon dioxide, chemically prepared |
|-----------|--------------------------------------|

|           |                                |
|-----------|--------------------------------|
| 1327-43-1 | Magnesium aluminosilicate clay |
|-----------|--------------------------------|

|            |                            |
|------------|----------------------------|
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) |
|------------|----------------------------|

|           |                      |
|-----------|----------------------|
| 7786-30-3 | Magnesium Dichloride |
|-----------|----------------------|

|                         |
|-------------------------|
| · <b>Proposition 65</b> |
|-------------------------|

|   |
|---|
| · <b>Chemicals known to cause cancer:</b> |
|---|

|            |                            |
|------------|----------------------------|
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) |
|------------|----------------------------|

|  |
|--|
| · <b>Chemicals known to cause reproductive toxicity for females:</b> |
|--|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|  |
|--|
| · <b>Chemicals known to cause reproductive toxicity for males:</b> |
|--|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|   |
|---|
| · <b>Chemicals known to cause developmental toxicity:</b> |
|---|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|                                  |
|----------------------------------|
| · <b>Carcinogenic categories</b> |
|----------------------------------|

|  |
|--|
| · <b>EPA (Environmental Protection Agency)</b> |
|--|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|   |
|---|
| · <b>TLV (Threshold Limit Value established by ACGIH)</b> |
|---|

|            |                            |    |
|------------|----------------------------|----|
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) | A2 |
|------------|----------------------------|----|

|   |
|---|
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |
|---|

|            |                            |
|------------|----------------------------|
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) |
|------------|----------------------------|

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

- **Hazard pictograms**



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

|                            |
|----------------------------|
| Quartz (SiO <sub>2</sub> ) |
|----------------------------|

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**Trade name: CRS SPure™ H2O Filters**

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- **Hazard statements**

*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:**

- **Additional classification according to Decree on Hazardous Materials:**

*Carcinogenic hazardous material group III (dangerous).*

- **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** *08/28/2017 / -*

- **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International 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 Carriage 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.**