# **SAFETY DATA SHEET**



#### Refill Hydrocarbon-H2O Trap

### **Section 1. Identification**

GHS product identifier : Refill Hydrocarbon-H2O Trap

Part no. : HCRMS

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use

HCRMS Refill, Hydrocarbon-H2O Trap, 1pt

Bottle 450 ml

**Supplier/Manufacturer**: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

Emergency telephone number (with hours of

operation)

: CHEMTREC®: 1-800-424-9300

### Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

H350 CARCINOGENICITY - Category 1A

H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic

environment: 9%

**GHS label elements** 

Hazard pictograms :



Signal word : Danger

**Hazard statements**: H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure. (lungs)

<u>Precautionary statements</u>

**Prevention**: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P260 - Do not breathe dust or mist.

P270 - Do not eat, drink or smoke when using this product.

**Response**: P308 + P313 - IF exposed or concerned: Get medical advice or attention.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards

Hazards not otherwise

classified

: None known.

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### Section 2. Hazards identification

Hazards identified when

: No known significant effects or critical hazards.

used

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Synonyms	%	Identifiers
grystalline silica, respirable powder	-	≥1 - ≤5	CAS: 14808-60-7
cristobalite	-	≥1 - ≤5	CAS: 14464-46-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### **Description of necessary first aid measures**

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact

: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation

: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact Ingestion

No known significant effects or critical hazards.No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

irritation redness

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### Section 4. First aid measures

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: No specific data.Ingestion: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: No specific fire or explosion hazard.

 Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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### Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

Methods for cleaning up

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, : including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Exposure limits
NIOSH REL (United States, 10/2020) [SILICA, CRYSTALLINE] NIA.  TWA 10 hours: 0.05 mg/m³. Form: respirable dust.  CAL OSHA PEL (United States, 1/2025)  TWA 8 hours: 0.05 mg/m³.  OSHA PEL Z3 (United States, 6/2016)  TWA 8 hours: 250 / (%SiO₂+5) mppcf. Form: Respirable.  TWA 8 hours: 10 / (%SiO₂+2) mg/m³. Form: Respirable.  OSHA PEL (United States, 5/2018) [Silica, crystalline]  TWA 8 hours: 50 μg/m³. Form: Respirable dust.  OSHA PEL 1989 (United States, 3/1989)  TWA 8 hours: 0.1 mg/m³ (as quartz). Form: Respirable dust.  ACGIH TLV (United States, 1/2024) [Silica, crystalline] A2.

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### Section 8. Exposure controls/personal protection

cristobalite

TWA 8 hours: 0.025 mg/m<sup>3</sup>. Form:

Respirable fraction.

NIOSH REL (United States, 10/2020)
[SILICA, CRYSTALLINE] NIA.

TWA 10 hours: 0.05 mg/m³. Form: respirable

dust.

CAL OSHA PEL (United States, 1/2025)

TWA 8 hours: 0.05 mg/m³. Form: respirable

dust.

OSHA PEL Z3 (United States, 6/2016)

TWA 8 hours: 250 / 2 x (%SiO<sub>2</sub>+5) mppcf.

Form: Respirable.

TWA 8 hours:  $10 / 2 \times (\%SiO_2 + 2) \text{ mg/m}^3$ .

Form: Respirable.

TWA 8 hours:  $30 / 2 \times (\%SiO_2+2) \text{ mg/m}^3$ .

Form: Total dust.

OSHA PEL (United States, 5/2018) [Silica,

crystalline]

TWA 8 hours: 50 µg/m³. Form: Respirable

dust

OSHA PEL 1989 (United States, 3/1989)

TWA 8 hours: 0.05 mg/m³ (as quartz). Form:

Respirable dust.

ACGIH TLV (United States, 1/2024) [Silica,

crystalline] A2.

TWA 8 hours: 0.025 mg/m<sup>3</sup>. Form:

Respirable fraction.

#### **Biological exposure indices**

No exposure indices known.

# Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

#### **Skin protection**

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### Section 8. Exposure controls/personal protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

**Physical state** : Solid. [Pellets./Granular solid./Powder.]

Color Tan./White. Odor : Odorless. **Odor threshold** Not available. рH Not available. **Melting point/freezing point** : Not available. **Boiling point or initial** : Not available.

boiling point and boiling

range

Flash point : Not applicable. **Evaporation rate** : Not available. **Flammability** : Not available. Lower and upper explosion Not applicable.

limit/flammability limit

Vapor pressure : Not available. : Not applicable. Relative vapor density Not available.

Relative density Solubility(ies)

Media Result Insoluble water

Partition coefficient: noctanol/water

: Not applicable.

**Auto-ignition temperature Decomposition temperature** 

: Not applicable. : Not available.

**Viscosity** 

vnamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

**Particle characteristics** 

Median particle size Not available.

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## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: May react or be incompatible with oxidizing materials.

Incompatible with hydrogen fluoride.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

**Conclusion/Summary** 

[Product]

: Not available.

**Skin corrosion/irritation** 

**Conclusion/Summary** 

[Product]

: Not available.

Serious eye damage/eye irritation

**Conclusion/Summary** 

[Product]

: Not available.

Respiratory corrosion/irritation

**Conclusion/Summary** 

[Product]

: Not available.

#### Respiratory or skin sensitization

Skin

**Conclusion/Summary** 

: Not available.

[Product]

Respiratory

**Conclusion/Summary** 

[Product]

: Not available.

Germ cell mutagenicity

**Conclusion/Summary** 

[Product]

: Not available.

#### Carcinogenicity

Not available.

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# **Section 11. Toxicological information**

**Conclusion/Summary** 

: Not available.

[Product]

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, respirable powder	+	1	Known to be a human carcinogen.
cristobalite	+	1	Known to be a human carcinogen.

#### Reproductive toxicity

**Conclusion/Summary** 

: Not available.

[Product]

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

prystalline silica, respirable powder SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs)

(inhalation) - Category 1

cristobalite SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs)

(inhalation) - Category 1

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

#### Potential acute health effects

**Eye contact**: Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the eyes.

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the nose, throat and lungs.

Skin contactIngestionNo known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

irritation redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

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### **Section 11. Toxicological information**

Potential delayed effects

: Not available.

Long term exposure

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

#### Potential chronic health effects

**Conclusion/Summary** 

[Product]

Not available.

General

: Causes damage to organs through prolonged or repeated exposure. Repeated or

prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity

: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity
Reproductive toxicity

No known significant effects or critical hazards.No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

N/A

# Section 12. Ecological information

#### **Toxicity**

**Conclusion/Summary** 

[Product]

: Not available.

#### Persistence and degradability

**Conclusion/Summary** 

[Product]

: Not available.

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/Water partition

coefficient

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

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### Section 13. Disposal considerations

and sewers.

## **Section 14. Transport information**

DOT / TDG / Mexico / IMDG / : Not regulated.

**IATA** 

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

# Section 15. Regulatory information

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

**U.S. Federal regulations** 

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

**Class I Substances** 

Clean Air Act Section 602 : Not listed

Class II Substances

**DEA List I Chemicals** : Not listed

(Precursor Chemicals)

**DEA List II Chemicals** : Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

#### Composition/information on ingredients

Name	%	Classification
carbon	≥45 - ≤70	COMBUSTIBLE DUSTS
crystalline silica, respirable		CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
cristobalite		CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

State regulations

Massachusetts: The following components are listed: SILICA, CRYSTALLINE, QUARTZ;

CRISTOBALITE DUST

**New York** : None of the components are listed.

New Jersey : The following components are listed: SILICA, QUARTZ; SILICA, CRISTOBALITE

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### **Section 15. Regulatory information**

**Pennsylvania** : The following components are listed: QUARTZ DUST; CRISTOBALITE DUST

#### California Prop. 65

MARNING: This product can expose you to chemicals including Silica, crystalline and Silica, crystalline, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Cilica, or votalling	-	-

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

**Australia** : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted.

: Japan inventory (CSCL): All components are listed or exempted. **Japan** 

Japan inventory (ISHL): All components are listed or exempted.

**New Zealand** : All components are listed or exempted. **Philippines** All components are listed or exempted. Republic of Korea : All components are listed or exempted. **Taiwan** : All components are listed or exempted. **Thailand** : All components are listed or exempted. **Turkey** : All components are listed or exempted. **United States** : All components are active or exempted. **Viet Nam** : All components are listed or exempted.

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
,	Calculation method Calculation method

#### **History**

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### Section 16. Other information

#### Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

DOT = Department of Transportation

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

TDG = Transportation of Dangerous Goods

UN = United Nations

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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