# MINERALS TECHNOLOGIES CETCO Alexa Bankland Control Alexa Bankland Control

# SAFETY DATA SHEET

## 1. Identification

Product identifier RM-10® 4014

Other means of identification None.

Recommended use water supply; sewerage, waste management and remediation activities: remediation activities and

other waste management services

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

## Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name CETCO Energy Services Company, an MTI Company

Address 2870 Fords Avenue

Hoffman Estates Covington, IL 60192 United States

**Telephone** General Information 985 871-4700 **Website** http://www.cetcoenergyservices.com/

E-mail safetydata@mineralstech.com

**Emergency phone number** Emergency 1.866.519.4752/1 760 476 3962

**Americas** 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** May cause cancer. Causes damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

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

and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective

clothing/eye protection/face protection.

**Response** If exposed or concerned: Get medical advice/attention.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 15.36% of the mixture consists of component(s) of unknown acute dermal toxicity. 15.36% of the

mixture consists of component(s) of unknown acute hazards to the aquatic environment. 15.36%

of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

Material name: RM-10® 4014 SDS US

4304 Version #: 17 Revision date: 12-July-2019 Issue date: 12-July-2019

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	5 - < 10
CRISTOBALITE		14464-46-1	1 - < 3
Other components below reportable levels			90 - 100
Impurities			
Ohamiaal mama	Common name and armanima	OAC mumbar	0/

Chemical nameCommon name and synonymsCAS number%INERT OR<br/>NUISANCE DUSTSPARTICLES NOT OTHERWISE<br/>REGULATEDSEQ250

**Composition comments** 

Occupational Exposure Limits for impurities are listed in Section 8. This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%.

#### 4. First-aid measures

Inhalation If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if

cough or other symptoms develop. If not breathing, give artificial respiration or give oxygen by

trained personnel.

**Skin contact** Immediately flush skin with running water for at least 20 minutes. Get medical attention if irritation

develops or persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if

irritation develops or persists.

**Ingestion** Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek

medical attention.

Most important symptoms/effects, acute and delayed

Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop leak if you can do so without risk. Avoid the generation of dusts during clean-up. Sweep up or gather material and place in appropriate container for disposal. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime.

Material name: RM-10® 4014 SDS US

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## **Environmental precautions**

Do not let product enter drains. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. No special restrictions on storage with other products. Store in tightly closed container. No special storage conditions required. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Туре	Value	Form
PEL	0.05 mg/m3	Respirable dust.
PEL	0.05 mg/m3	Respirable dust.
CFR 1910.1000)		
Туре	Value	Form
TWA	0.05 mg/m3	Respirable.
	1.2 mppcf	Respirable.
TWA	0.1 mg/m3	Respirable.
	2.4 mppcf	Respirable.
Туре	Value	Form
TWA	5 mg/m3	Respirable fraction.
	15 mg/m3	Total dust.
	50 mppcf	Total dust.
	15 mppcf	Respirable fraction.
nit Values		
Туре	Value	Form
TWA	0.025 mg/m3	Respirable fraction.
TWA	0.025 mg/m3	Respirable fraction.
e to Chemical Hazards		
Туре	Value	Form
TWA	0.05 mg/m3	Respirable dust.
TWA	0.05 mg/m3	Respirable dust.
No biological exposure limits noted for the inc	aredient(s)	
No biological exposure littles noted for the ing	grodiorit(o).	
	PEL PEL PEL PEL PEL CFR 1910.1000)  Type TWA  TWA  Type TWA  TWA  TWA  TWA  TWA  TWA  TWA  TWA	PEL 0.05 mg/m3 PEL 0.05 mg/m3 PEL 0.05 mg/m3  Type Value  TWA 0.05 mg/m3  1.2 mppof TWA 0.1 mg/m3  2.4 mppof Type Value  TWA 5 mg/m3  50 mppof 15 mppof 15 mppof  mit Values  TWA 0.025 mg/m3  TWA 0.025 mg/m3  TWA 0.025 mg/m3  TWA 0.05 mg/m3

Material name: RM-10® 4014 sps us

should be monitored and controlled.

4304 Version #: 17 Revision date: 12-July-2019 Issue date: 12-July-2019

#### Appropriate engineering controls

If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure

## Individual protection measures, such as personal protective equipment

Applicable for industrial settings only. Wear dust goggles. Eye wash fountain is recommended. Eye/face protection

Skin protection

Hand protection Applicable for industrial settings only. Wear appropriate chemical resistant gloves. Impervious

butyl rubber gloves.

Other Applicable for industrial settings only. Use of an impervious apron is recommended. Use of

protective coveralls and long sleeves is recommended.

Respiratory protection Applicable for industrial settings only. Use a particulate filter respirator for particulate

concentrations exceeding the Occupational Exposure Limit.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state Solid.

Powder, Granular, **Form** 

Tan. Color None. Odor

**Odor threshold** Not available.

Hq 9 @ 1% dispersion estimated

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure 0.00001 hPa estimated

Vapor density Not available. Not available. Relative density

Solubility(ies)

Negligible Solubility (water) Partition coefficient

(n-octanol/water)

Not available.

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Viscosity Not available.

Material name: RM-10® 4014 SDS US

4304 Version #: 17 Revision date: 12-July-2019 Issue date: 12-July-2019

Other information

Not explosive. **Explosive properties Oxidizing properties** Not oxidizing. 0 % estimated Percent volatile

VOC **CARB** 

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Stable at normal conditions. Chemical stability

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Powerful oxidizers. Chlorine. None known. Incompatible materials

Hazardous decomposition

products

None known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

## Information on toxicological effects

**Acute toxicity** Eye irritation Not known. Skin irritation

Species **Test Results** Components

CRISTOBALITE (CAS 14464-46-1)

**Acute** Oral

LD50 Rat > 22500 mg/kg

Skin corrosion/irritation

Serious eye damage/eye irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica

inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and

Material name: RM-10® 4014 SDS US

respirable crystalline silica should be monitored and controlled.

## IARC Monographs. Overall Evaluation of Carcinogenicity

CRISTOBALITE (CAS 14464-46-1) 1 Carcinogenic to humans. QUARTZ (SIO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7) Cancer US. National Toxicology Program (NTP) Report on Carcinogens

CRISTOBALITE (CAS 14464-46-1) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen. Known To Be Human Carcinogen. QUARTZ (SIO2) (CAS 14808-60-7)

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** 

Not an aspiration hazard.

**Chronic effects** 

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

## 12. Ecological information

Contains a substance which causes risk of hazardous effects to the environment. **Ecotoxicity** 

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential Mobility in soil

No data available. No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

DOT

Not regulated as dangerous goods.

Material name: RM-10® 4014 SDS US 6/8 4304 Version #: 17 Revision date: 12-July-2019 Issue date: 12-July-2019

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not

to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly

Hazardous Process Safety Standard, 29 CFR 1910.119.

#### **Toxic Substances Control Act (TSCA)**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

CRISTOBALITE (CAS 14464-46-1)

QUARTZ (SIO2) (CAS 14808-60-7)

CRISTOBALITE (CAS 14464-46-1)

QUARTZ (SIO2) (CAS 14808-60-7)

Lung effects

lung effects

CRISTOBALITE (CAS 14464-46-1) immune system effects QUARTZ (SIO2) (CAS 14808-60-7) immune system effects

CRISTOBALITE (CAS 14464-46-1) kidney effects QUARTZ (SIO2) (CAS 14808-60-7) kidney effects

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No (Exempt)

chemical

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

#### **California Proposition 65**



WARNING: This product can expose you to QUARTZ (SIO2), which is known to the State of California to cause

cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

QUARTZ (SIO2) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

CRISTOBALITE (CAS 14464-46-1)

Material name: RM-10® 4014

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

Japan Inventory of Existing and New Chemical Substances (ENCS)

Korea Existing Chemicals List (ECL)

New Zealand Inventory

Philippines Philippine Inventory of Chemicals and Chemical Substances

Yes

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

# 16. Other information, including date of preparation or last revision

Issue date12-July-2019Revision date12-July-2019

Version # 17

Further information This safety datasheet only contains information relating to safety and does not replace any product

information or product specification. HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 3\*
Flammability: 0

Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

**Disclaimer** CETCO Energy Services Company, an MTI Company cannot anticipate all conditions under which

this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the

Revision information Product and Company Identification: Alternate Trade Names

Physical & Chemical Properties: Multiple Properties

Physical and chemical properties: Form

Material name: RM-10® 4014 SDS US

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).