CETGO

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name PT-1E Version # 01

Revision date09-Jun-2008Chemical descriptionOrganoclayManufacturer informationCETCO

Remediation Technology 1500 W. Shure Drive

Suite 500

Arlington Heights, IL 60004 US General Information (800) 527-9948

CHEMTREC (800) 424-9300

2. Hazards Identification

Emergency overview This product has the potential for generation of respirable dust during handling and use.

Dust may contain respirable crystalline silica.

Potential health effects

Eyes Dust or powder may irritate eye tissue.

Skin Health injuries are not known or expected under normal use. Non-irritating to the skin.

Inhalation Inhalation of dusts may cause respiratory irritation. Repeated or prolonged inhalation may

cause toxic effects. For additional information on inhalation hazards, see Section 11 of this

safety data sheet.

Ingestion No significant adverse effects are expected upon ingestion of the product.

Chronic effects Overexposure to dust may result in pneumocononiosis, a respiratory disease caused by

inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to nuisance dust (total and respirable) and

respirable crystalline silica should be monitored and controlled.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

Composition comments This product contains naturally occurring crystalline silica (not listed in Annex I of Directive

67/548/EEC) in quantities less than 5%. Occupational Exposure Limits for impurities are

listed in Section 8.

4. First Aid Measures

First aid procedures

Eye contact Flush eyes immediately with large amounts of water. If irritation persists get medical

attention.

Skin contact No special measures required Get medical attention if irritation develops or persists.

Inhalation Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get medical attention, if needed.

Ingestion No special measures required. If ingestion of a large amount does occur, seek medical

attention.

Notes to physician Provide general supportive measures and treat symptomatically.

General advice If you feel unwell, seek medical advice (show the label where possible). Immediate medical

attention is required. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Keep victim warm. Take off contaminated

clothing and shoes immediately. In case of shortness of breath, give oxygen.

5. Fire Fighting Measures

Flammable properties The product is not flammable.

Extinguishing media

Suitable extinguishing media

Use any media suitable for the surrounding fires. Dry chemical, CO2, water spray or regular

foam.

6. Accidental Release Measures

Personal precautions Ensure adequate ventilation. Wear a dust mask if dust is generated above exposure limits.

Environmental precautions Prevent further leakage or spillage if safe to do so. No special environmental precautions

required.

Methods for containment Stop leak if you can do so without risk.

Methods for cleaning upAvoid the generation of dusts during clean-up. Collect dust or particulates using a vacuum

cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with

water.

7. Handling and Storage

Handling Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at

places where dust is formed. In case of insufficient ventilation, wear suitable respiratory

equipment.

StorageNo special restrictions on storage with other products. Store in a dry area. Guard against

dust accumulation of this material.

8. Exposure Controls / Personal Protection

Occupational exposure limits

U.S. - OSHA

Impurities	CAS #	Туре	Value	Form
NUISANCE PARTICULATES	RR-00072-6	TWA	5 mg/m3	(respirable fraction)
		TWA (total dust)	15 mg/m3	(total dust)

Exposure guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

ACGIH - Threshold Limit Values - TLV Basis - Critical Effects

QUARTZ 14808-60-7 lung cancer; pulmonary fibrosis

U.S. - OSHA - Final PELs - Table Z-3 Mineral Dusts

(respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))

Engineering controls 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 limits. If engineering measures are not sufficient to maintain concentrations of dust

particulates below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Eye / face protection Wear dust goggles. Eye wash fountain is recommended.

Skin protection No special protective equipment required. Normal work clothing (long sleeved shirts and

long pants) is recommended.

Respiratory protection Use a particulate filter respirator for particulate concentrations exceeding the Occupational

Exposure Limit.

General hygeine considerations

Use good industrial hygiene practices in handling this material.

9. Physical & Chemical Properties

AppearancePowder. Granular.ColorNot available.

Odor None.

Odor threshold Not available.

Physical stateSolid.FormSolid.

pH Not available.

Melting point 2192 °F (1200 °C) estimated

Freezing point Not available.

Boiling point 2192 °F (1200 °C) estimated

Flash point Not available.

Evaporation rate Not available.

Flammability Not available.

Flammability limits in air, Not available.

upper, % by volume

Flammability limits in air,

Not available.

lower, % by volume

Vapor pressure

Vapor density

Specific gravity

Not available.

1.7852 estimated

Relative density 1.785 g/cm3 estimated

Solubility (water)
Partition coefficient
(n-octanol/water)

Not available. Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

VOC 0 % estimate

VOC 0 % estimated
Percent volatile 0 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Conditions to avoidNone known.Incompatible materialsNone known.Hazardous decompositionNone known.

products

Possibility of hazardous

reactions

Chronic effects

Will not occur.

11. Toxicological Information

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

QUARTZ 14808-60-7 Oral LD50 Rat: 500 mg/kg

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. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Carcinogenicity

ACGIH - Threshold Limit Values - Carcinogens

QUARTZ 14808-60-7 A2 - Suspected Human Carcinogen

IARC - Group 1 (Carcinogenic to Humans)

QUARTZ 14808-60-7 Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or

cristobalite from occupational sources)

NTP (National Toxicology Program) - Report on Carcinogens - Known Human Carcinogens

QUARTZ 14808-60-7 Known Human Carcinogen

12. Ecological Information

Ecotoxicity This material is not expected to be harmful to aquatic life.

Environmental effectsBased on the physical properties of this product, significant environmental persistence and

bioaccumulation would not be expected.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. Material should be recycled if possible

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA

Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous

chemical

Yes

Inventory status

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 New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS	S) No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains a chemical known to the State of California to cause

cancer.

U.S. - California - Proposition 65 - Carcinogens List

QUARTZ 14808-60-7 carcinogen, initial date 10/1/88 (airborne particles of respirable size)

U.S. - New Jersey - Right to Know Hazardous Substance List

QUARTZ 14808-60-7 sn 1660 **U.S. - Pennsylvania - RTK (Right to Know) List**QUARTZ 14808-60-7 Present

16. Other Information

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.

Further information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

HMIS ratings



NFPA ratings

Health: 1 Flammability: 0 Instability: 0

Disclaimer

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 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.

Issue date

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Other information

CETCO is a wholly owned division/subsidiary of AMCOL International Corp.

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