

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Quartz Probe - Ticonium
Product Number: 3633, 3637
Chemical Name: Fused Quartz; Amorphous fused silica
Chemical Family: Fused silicon dioxide
CAS Number: Blend

Company Identification

Ticonium Co., Div of CMP Industries LLC
413 North Pearl St
Albany, NY 12207-1311 USA
(518)-434-3147 (For product information)
(800)-424-9300 (For emergencies)
1-800-424-9300 or 1-202-483-7616 (CHEMTREC)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: May cause eye irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. Prolonged overexposure to respirable crystalline silica may cause lung disease (Silicosis) and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure.

GHS Classification:

Carcinogenicity - Category 1
Category 3 (Respiratory tract irritation)

GHS Hazard Symbols:

Irritant, Health Hazard



GHS Hazard Statements:

H332 - Harmful if inhaled.
H315 - Causes skin irritation.

EYE:

Dust may be irritating to the eye.



SKIN:

May cause slight skin irritation.

INHALATION:

Dust may be slightly irritating to respiratory tract.

INGESTION:

Ingestion is not considered a potential route of exposure.

SIGNS AND SYMPTOMS OF EXPOSURE:

Coughing, wheezing and difficulty in breathing.

CHRONIC EFFECTS:

Overexposure may lead to Silicosis.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

Crystalline silica quartz is listed as 'Carcinogenic to Humans' Group 1 by IARC and 'Known to be a Human Carcinogen' by NTP.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Individuals with impaired respiratory functions and breathing disorders will be more susceptible to lung damage (silicosis).

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

| Chemical Name | Amount | CAS Number |
|-----------------------------|----------|------------|
| SILICON DIOXIDE (AMORPHOUS) | > 99.9 % | 60676-86-0 |

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are acute, chronic hazards.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes. Seek medical attention if irritation develops or persists.

SKIN CONTACT FIRST AID:

Wash skin with soap and plenty of water. For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Seek medical attention if irritation develops.

INHALATION FIRST AID:

If breathing is difficult, remove to fresh air. Have qualified personnel give oxygen if necessary. Seek medical attention.

INGESTION FIRST AID:



Ingestion is not considered a potential route of exposure.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

FLAMMABLE PROPERTIES:

Not flammable under normal conditions.

EXTINGUISHING MEDIA:

Use appropriate extinguishing media for the surrounding fire.

FIRE FIGHTING INSTRUCTIONS:

Avoid breathing smoke, fumes, and decomposition products. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment.

LARGE SPILLS PROCEDURE:

Use normal cleanup procedures using wet sweeping or vacuum. Taking care to avoid generating dust.

SMALL SPILLS PROCEDURE:

N/A.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid contact with eyes. Avoid breathing dust.

STORAGE PRECAUTIONS:

Store in a cool dry place. Maintain good housekeeping techniques.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.



EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination. Wash hands thoroughly after handling.

RESPIRATORY PROTECTION REQUIREMENTS:

Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES:

SILICON DIOXIDE (AMORPHOUS)

OSHA PEL: .08 mg/m³

OSHA TWA: .05 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------|-----------------|
| FORM: | Solid |
| COLOR: | Clear |
| ODOR: | No odor |
| BOILING POINT: | 2230 C |
| SPECIFIC GRAVITY: | 2.2 (Water = 1) |
| % VOLATILES: | 10 % |

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid strong alkalis. It reacts with Hydrofluoric acid to form volatile Silicon Tetrafluoride (SiF₄).

11. TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS /:

May cause respiratory disease.

12. ECOLOGICAL INFORMATION

MISCELLANEOUS:

Vacuum clean spillage. If sweeping is necessary use a dust suppressant.

13. DISPOSAL CONSIDERATIONS



WASTE DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

14. TRANSPORT INFORMATION

| | |
|--------------------------|-------------------------|
| PRODUCT LABEL: | Quartz Probe - Ticonium |
| D.O.T. SHIPPING NAME: | N/A |
| TECHNICAL SHIPPING NAME: | N/A |
| D.O.T. HAZARD CLASS: | N/A |
| UN NUMBER: | N/A |

15. REGULATORY INFORMATION

REGULATORY LISTS SEARCHED:

| | |
|---------------------|------------------------|
| 01 = SARA 313 | 02 = CA Proposition 65 |
| 03 = SARA 302/304 | 04 = CERCLA 302.4 |
| 05 = ACGIH TWA | 06 = ACGIH STEL |
| 07 = ACGIH CALC TLV | 08 = OSHA PEL |
| 09 = CANADIAN WHMIS | 10 = OSHA Ceiling |

EEC Symbols and Indications of Danger:

Harmful (Xn), Irritant (Xi)



R-Phrases:

R37 - Irritating to respiratory system.

S-Phrases:

S23.2 - Do not breathe vapor.

WHMIS Hazard Symbols:

Class D2 - Materials Causing Other Toxic Effects



Canadian Disclosure List

SILICON DIOXIDE (AMORPHOUS) (60676-86-0)

CA Proposition 65

SILICON DIOXIDE (AMORPHOUS) (60676-86-0)



16. OTHER INFORMATION

PREPARED BY: John Nicpon
APPROVED BY: John Nicpon
TITLE: Quality Manager
APPROVAL DATE: March 26, 2015
SUPERCEDES DATE: November 4, 2013
RTN NUMBER: 00000106 (Official Copy)

NFPA Rating:

Health -
Flammability -
Reactivity -
Special Hazard - N/A

ABBREVIATIONS USED IN THIS MSDS:

| | |
|----------------------------------|--|
| TLV - THRESHOLD LIMIT VALUE | TWA - Time Weighted Average |
| STEL - SHORT TERM EXPOSURE LIMIT | TPQ - Threshold Planning Quantity |
| RQ - REPORTABLE QUANTITY | PEL - Permissible Exposure Limit |
| C - CEILING LIMIT | CAS - Chemical Abstract Service Number |
| NDA - NO DATA AVAILABLE | N/A - Not Applicable or Not Available |

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END OF SAFETY DATA SHEET

