Material Safety Data Sheet

Momentive Performance Materials Clear Fused Quartz

PRODUCT: QUARTZ PRODUCTS Quartz (Tubing, Rod, Crucibles, etc)
MSDS No: 53279

Momentive Performance Materials Quartz, 1975 Noble Road, Cleveland, OH 44112-6300

(1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:
Willoughby Quartz Plant
Momentive Performance Materials Quartz, Inc.
4901 Campbell Road
Willoughby, OH 44094
EMERGENCY PHONE (8-5 & 24 HOURS):
216-266-4109
216-266-2222

SUPPLIED BY:
Willoughby Quartz Plant
Momentive Performance Materials Quartz, Inc.
4901 Campbell Road
Willoughby, OH 44094
EMERGENCY PHONE (8-5 & 24 HOURS):
216-266-4109
216-266-2222

REVISED: 10/23/06
PREPARER: A. M. Zielinski

(2) COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>PRODUCT COMPOSITION/</th>
<th>APPROX. WGT. %</th>
<th>ACGIH TLV TWA</th>
<th>OSHA PEL TWA</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMORPHOUS FUSED SILICA</td>
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http://www.quartz.com/qtzmsds.html (1 of 7) [2/13/2012 12:04:59 PM]
(3) HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Avoid breathing dust.

PRODUCT INFORMATION:

INHALATION:
Causes moderate respiratory irritation.

INGESTION:
None expected.

SKIN CONTACT:
Can dry skin.

EYE CONTACT:
May cause eye irritation through mechanical abrasion.

MEDICAL CONDITIONS AGGRAVATED:
Pulmonary disorders.

CHRONIC EFFECTS/CARCINOGENICITY:
Silicosis has been associated with an increased risk of lung cancer.
Crystalline silica should be considered a possible human carcinogen
based on this association. Fused silica has not been identified as a
carcinogen.

(4) FIRST AID MEASURES

INHALATION:
If inhaled, remove from area to fresh air. Get medical attention if
respiratory irritation develops or if breathing becomes difficult.

INGESTION:
No emergency care anticipated.

SKIN:
Wash with soap and water.

EYES:
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

(5) FIRE FIGHTING MEASURES

FLASH POINT: None  
METHOD: Not specified  
FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable  
FLAMMABLE LIMITS IN AIR - UPPER (%): Not applicable  
IGNITION TEMP: None  
EXTINGUISHING MEDIA: All standard firefighting media  
SPECIAL FIREFIGHTING PROCEDURES: None known  
SENSITIVITY TO MECHANICAL IMPACT (Y/N): No  
SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is not expected.

(6) ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Sweep or gather up material and place in proper container for disposal or recovery.

(7) HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: No special precautions required.

(8) EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No specific engineering controls normally required.  
VENTILATION: General room ventilation is normally adequate.  
RESPIRATORY PROTECTION: Use approved NIOSH respiratory protection if TLV exceeded or over exposure is likely.  
EYE AND FACE PROTECTION: Safety glasses  
PROTECTIVE GLOVES: None known.  
OTHER PROTECTIVE EQUIPMENT: None known.
9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 2230 C (4045 F)
MELTING POINT: 1710 C (3110 F)
SPECIFIC GRAVITY (WATER=1): 2.65
VAPOR PRESSURE (20 C) (MM HG): N/A
VAPOR DENSITY (AIR=1): N/A
% VOLATILE BY VOLUME: None
EVAP. RATE (BUTYL ACETATE=1): N/A
SOLUBILITY IN WATER (20 C): Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): Unknown

PHYSICAL STATE: Solid
COLOR: Colorless
APPEARANCE: Clear tubing/rod or crucible
ODOR: None
ODOR THRESHOLD (PPM): Unknown
PH: Unknown

(10) STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
HAZARDOUS THERMAL
   DECOMPOSITION/COMBUSTION PRODUCTS: Hydrofluoric acid
   INCOMPATIBILITY (MATERIALS TO AVOID): Grinding, sawing, sanding, abrading or otherwise dispersing in air.
   CONDITIONS TO AVOID: Fused silica can convert to crystalline silica if held at high temperatures for extended periods of time.

(11) TOXICOLOGICAL INFORMATION

AMORPHOUS FUSED SILICA 60676-86-0
ACUTE INHALATION LC50 (MG/L): Unknown
ACUTE ORAL LD50 (MG/KG): Unknown
AMES TEST: Unknown
PRODUCT INFORMATION:

(12) ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>ECOTOXICOLOGICAL INFORMATION:</th>
<th>No data at this time.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL FATE INFORMATION:</td>
<td>No data at this time.</td>
</tr>
</tbody>
</table>

(13) DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>DISPOSAL METHOD:</th>
<th>Disposal should be made in accordance with federal, state and local regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA HAZARDOUS WASTE CLASSIFICATION:</td>
<td>Not Classified</td>
</tr>
</tbody>
</table>

(14) TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>DOT SHIPPING NAME:</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT HAZARD CLASS:</td>
<td>None</td>
</tr>
<tr>
<td>DOT LABEL(S):</td>
<td>None</td>
</tr>
<tr>
<td>UN/NA NUMBER:</td>
<td>None</td>
</tr>
<tr>
<td>PLACARDS:</td>
<td>None</td>
</tr>
<tr>
<td>IATA:</td>
<td>None</td>
</tr>
</tbody>
</table>

(15) REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>SARA SECTION 302:</th>
<th>None Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA (311, 312) HAZARD CLASS:</td>
<td>None</td>
</tr>
<tr>
<td>SARA (313) CHEMICALS:</td>
<td>None</td>
</tr>
<tr>
<td>WHMIS HAZARD CLASS</td>
<td>D2B TOXIC MATERIALS</td>
</tr>
<tr>
<td>HAZARD RATING SYSTEMS</td>
<td>FLAMMABILITY 0, REACTIVITY 0, HEALTH 1</td>
</tr>
<tr>
<td>HMIS:</td>
<td>FLAMMABILITY 0, REACTIVITY 0, HEALTH 1</td>
</tr>
<tr>
<td>NFPA:</td>
<td>All ingredients in this product comply with the TSCA Inventory requirements.</td>
</tr>
<tr>
<td>TSCA:</td>
<td>All ingredients in this product comply with the EINECS Inventory requirements.</td>
</tr>
<tr>
<td>EINECS:</td>
<td>All of the ingredients in this product are included in the Canadian DSL.</td>
</tr>
<tr>
<td>CANADIAN DOMESTIC SUBSTANCES LIST:</td>
<td>All of the ingredients in this product are included in the Canadian DSL.</td>
</tr>
</tbody>
</table>
CANADIAN NON-DOMESTIC SUBSTANCES LIST:

CANADIAN NPRI CHEMICALS: None

(16) OTHER INFORMATION

ADDITIONAL INFORMATION:
C = ceiling limit     NEGL = negligible      EST = estimated
NF = none found       NA = not applicable   UNK = unknown
NE = none established REC = recommended    ND = none determined
V = recommended by vendor TS = trade secret  SKN = skin
R = recommended       MST = mist

LABELING INFORMATION:

DATE PRINTED: 10/23/06

OTHER OCCUPATIONAL EXPOSURE LIMITS (NON-U.S.)

Other established occupational exposure limits where known are shown below.

AMORPHOUS FUSED SILICA
60676-86-0     U.K. Occupational Exposure Standard: 0.1 mg/m3 TWA
               Mexican Occupational Exposure Limit: 0.1 mg/m3 TWA
               German Exposure Limit: TRGS 900 - 0.3 mg/m3 (MAK)

*** END OF MSDS ***

NOTICE: Information herein is given in good faith, but no warranty, expressed or implied, is made. This material is intended for industrial use only.

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