Material Safety Data Sheet

Organoclay Plus

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Organoclay Plus
Generic Description: Organophilic Clay
Date Prepared: 7/2010

Supplier:

NOV FluidControl
4310 N Sam Houston Parkway East
Houston, Texas 77032 USA
Office: (713) 482-0500
Fax: (713) 482-0695
Company website: www.nov.com

Emergency Telephone Number:
CHEMTREC: 1-800-424-9300 or International +1-703-527-3887

II. COMPOSITION

<table>
<thead>
<tr>
<th>Material or Component</th>
<th>CAS Number</th>
<th>OSHA PEL</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organophilic Clay</td>
<td></td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>14808-60-7</td>
<td>2-6</td>
<td></td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>1-5</td>
<td></td>
</tr>
</tbody>
</table>

III. HAZARDS IDENTIFICATION

Hazard Data: Low concentrations of crystalline silica (SiO2) in the form of quartz, cristobalite or tridymite may be present.

IARC Overall Evaluation: Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

The OSHA Permissible Exposure Limits from Table Z-3 Mineral Dusts are:

Crystalline Silica

Quartz (Respirable) 10 mg/m3
% SiO2 + 2
Quartz (Total Dust) 30 mg/m3
% SiO2 + 2

If cristobalite or tridymite is detected, use one half the value calculated from formulae for quartz.

Isopropanol OSHA PEL is 400 ppm.
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Eyes: Dust may cause irritation and/or redness to the eyes.

Skin: Dust may be irritating to the skin.

Ingestion: Not anticipated route of exposure. No adverse effects for normal, incidental ingestion.

Inhalation: Crystalline silica in airborne dust is variable depending on fineness of product, local humidity and wind conditions at point of use.

Acute: Breathing silica dust may cause irritation of the nose, throat and respiratory passages.
Chronic: Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also cause silicosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1 - carcinogenic to humans). The National Toxicology Program (NTP) classifies respirable crystalline silica as “known to be a human carcinogen”. The American Conference of Governmental Industrial Hygienists (ACGIH) classified crystalline silica, quartz, as a suspected human carcinogen (A2)

Chronic Health Effects: See Inhalation Subsection above.

Medical Conditions Aggravated by Exposure:
Individuals with respiratory disease, including but not limited to, asthma and bronchitis, or subject to eye irritation should not be exposed to respirable dust.

IV. FIRST AID MEASURES

Eyes: Flush thoroughly with large amounts of running water for at least 15 minutes. Get medical advice if irritation develops.

Skin: Wash exposed area with soap and water. Get medical advice if irritation develops.

Ingestion: If large amounts were ingested get medical advice.

Inhalation: Remove person to fresh air. Get medical attention for any breathing difficulty.

Advice to Physicians: Treat symptomatically.

V. FIRE AND EXPLOSION DATA

Flash Point/Range: Not Applicable
Flammability Limits: Not Applicable
Fire Extinguishing Media: Use media applicable to surrounding material (this product will not support combustion).

Special Fire Fighting Procedures: None.
VI. ACCIDENTAL RELEASE MEASURES

Release or Spill: Collect using dustless method and place in suitable container for reuse or disposal. Material is slippery when wet.

Personal Precautions: Wear appropriate protective equipment.

Environmental Precautions: None.

VII. HANDLING AND STORAGE

Handling: Precaution – This product may contain crystalline silica. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH approved respirator or equivalent when using this product.

Danger – Breathing crystalline silica can cause lung disease, including silicosis and lung cancer.

Storage: Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container. Avoid moisture.

VIII. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation Requirements: Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits listed in Section 3.

Respiratory Protection: Use NIOSH approved mechanical filter respirator when dust levels exceed applicable exposure limits.

Skin Protection: Work gloves optional.

Eye Protection: Wear safety glasses or safety goggles. Maintain eye wash station in work area.

Other Precautions: As appropriate for work area. Dusty clothing should be laundered before reuse.

IX. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>Tan, Gray or Cream</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.6</td>
</tr>
<tr>
<td>Boiling Range/Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosion Limits (%)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Density @20°C (uncompacted)</td>
<td>35-57</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate (butyl acetate=1)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
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X. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.
Materials to Avoid: None
Hazardous Polymerization: Will not occur.
Hazardous Decomposition: None.

XI. TOXICOLOGICAL INFORMATION

Oral Toxicity: LD50: >5000 mg/kg (Rat)
Cancer Status: Crystalline silica is listed on NTP, IARC and OSHA as carcinogen.

XII. ECOLOGICAL INFORMATION

No ecotoxicity data is available. This product is not expected to present an environmental hazard.

XIII. DISPOSAL

Dispose of material in accordance with all local, state, and federal regulations.

XIV. TRANSPORTATION INFORMATION

UN Proper Shipping Name: Not regulated
UN Label: None
UN Number: None
Hazardous Ingredients: None
Placards: None
Reportable Quantity: None

XV. REGULATORY INFORMATION

TSCA Listed: Yes
SARA Title III Section 302: No
SARA Title III Section 311/312: Yes -Delayed/Chronic Health Hazard
SARA Title III Section 313: No
Canada DSL Inventory: Yes
WHMIS Hazard Class: WHMIS Class D, Div. 2, Subdivision A (Quartz)
California: California Prop 65. This product contains crystalline silica (respirable) which is known to the State of California to cause cancer.
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XVI. OTHER INFORMATION

NFPA Hazard Codes: Health 1; Flammability 0; Reactivity 0
Ratings based on NPFA

Abbreviations
N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
NIOSH: National Institute for Occupational Safety & Health
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer

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