SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT TRADE NAME | NAPA 8822 FLOOR-DRY
MANUFACTURER | EP Minerals, LLC., 9875 Gateway Dr., Suite 1000, Reno, NV 89521
TELEPHONE NO. | (775) 824 7600 (Monday – Friday 8:00 am PST – 5:00 pm PST)
CHEMICAL NAME | Diatomaceous Earth, Calcined
CHEMICAL FAMILY | Silica
MATERIAL USE | Industrial Absorbent
DATE OF PREPARATION | April 1, 2010

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Appearance/Color/Odor | A buff to off-white, low density granular product. There is no distinctive odor.

OSHA REGULATORY STATUS | This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200)
POTENTIAL HEALTH EFFECTS | See below and Section 11 for additional information

Likely Routes of Exposure
EYE | May cause irritation (tear formation and redness) if dust gets in eyes.
SKIN | Not absorbed by the skin, but may cause dryness if prolonged exposure.
INGESTION | Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach.
INHALATION | Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided.

CHRONIC EFFECTS | Chronic inhalation of crystalline silica dust in excess of the Threshold Limit Value (TLV) recommended by the American Conference of Governmental Industrial Hygienists (ACGIH) (0.025mg/m³) or in excess of the Permissible Exposure Limit (PEL) established by OSHA (0.050mg/m³), over a prolonged number of years may contribute to silicosis. Crystalline silica, when inhaled as respirable dust, has been classified in a 1997 monograph (Volume 68, “Silica”) of the International Agency for Research on Cancer (IARC) as carcinogenic to humans over prolonged and sustained exposure.

CONDITIONS AGGRAVATED BY EXPOSURE | Pre-existing diseases of the upper respiratory tract and lung such as bronchitis, emphysema, and asthma.
ENVIRONMENTAL EFFECTS | There are no significant environmental effects.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT IDENTIFICATION</th>
<th>APPROXIMATE CONCENTRATION (%)</th>
<th>C.A.S. NUMBERS</th>
<th>EINECS</th>
<th>R Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diatomaceous Earth, Calcined (kieselguhr)</td>
<td>100%</td>
<td>91053-39-3</td>
<td>293-303-4</td>
<td>R48/20</td>
</tr>
<tr>
<td>Crystalline Silica (Cristobalite)</td>
<td>&lt; 1%</td>
<td>14464-46-1</td>
<td>238-455-4</td>
<td>R48/20</td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)</td>
<td>&lt; 1%</td>
<td>14808-60-7</td>
<td>238-78-4</td>
<td>R48/20</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

EYE | Flush eyes with generous quantities of water or eye rinse solution. Consult physician if irritation persists.
SKIN | Use moisture renewing lotions if dryness occurs.
INGESTION | Drink generous amounts of water to reduce bulk and drying effects.
INHALATION | Remove to fresh air. Blow nose to evacuate dust.
NOTE TO PHYSICIANS | No special notes.
ANTIDOTE | Not applicable
SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY
This material is not flammable.

EXTINGUISHING MEDIA
Not applicable, the material is not flammable.

FIRE-FIGHTING PROCEDURES
Not applicable, the material is not flammable.

PROTECTIVE EQUIPMENT
Not applicable, the material is not flammable

HAZARDOUS COMBUSTION PRODUCTS
Not applicable, the material does not combust.

SPECIFIC PHYSICAL AND CHEMICAL HAZARDS
Not applicable, the material is not flammable.

EXPLOSION DATA
Not applicable, the material is not explosive.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles.

ENVIRONMENTAL PRECAUTIONS
This material is not a significant environmental concern.

CONTAINMENT AND CLEANUP
Vacuum clean spillage, wet sweep or wash away. Avoid creating dust.

SECTION 7: HANDLING AND STORAGE

HANDLING
Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags.

STORAGE
Store in a dry place to maintain packaging integrity and product quality. Do not store near hydrofluoric acid. Observe all label precautions and warnings.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>MSHA PEL</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diatomaceous Earth, Calcined (kieselguhr)</td>
<td>See below</td>
<td>See below</td>
<td>See below</td>
<td>See below</td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)</td>
<td>0.050 mg/m³</td>
<td>0.025 mg/m³</td>
<td>0.025 mg/m³</td>
<td>0.050 mg/m³</td>
</tr>
<tr>
<td>Crystalline Silica (Cristobalite)</td>
<td>0.050 mg/m³</td>
<td>0.025 mg/m³</td>
<td>0.025 mg/m³</td>
<td>0.050 mg/m³</td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS
Local – Control dust within recommended TLV/PEL. Refer to ACGIH publication “Industrial Ventilation” or similar publications for design of ventilation systems.

PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE
Goggles to protect from dust

SKIN
No special equipment is needed.

RESPIRATORY
Respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present. If the dust concentration is less than ten (10) times the Permissible Exposure Limit (PEL) use a quarter or half-mask respirator with a N95 dust filter or a single use dust mask rated N95. If dust concentration is greater than ten (10) times and less than fifty (50) times the PEL, a full-face piece respirator fitted with replaceable N95 filters is recommended. If dust concentration is greater than fifty (50) and less than two hundred (200) times the PEL use a power air-purifying (positive pressure) respirator with a replaceable N95 filter. If dust concentration is greater than two hundred (200) times the PEL use a type C, supplied air respirator (continuous flow, positive pressure), with full face piece, hood or helmet.

GENERAL HYGIENE
Avoid breathing dust. Avoid contact with eyes. Wash hands after handling and before eating or drinking.

For sampling silica dusts refer to NIOSH Analytical Method 7500 or OSHA method ID 142
## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>APAPEARANCE, COLOR</th>
<th>Buff to off white granules</th>
<th>ODOR</th>
<th>Odorless</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICAL STATE</td>
<td>Solid</td>
<td>pH (10% SUSPENSION)</td>
<td>7</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>Not applicable</td>
<td>VAPOR DENSITY</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>Not applicable</td>
<td>MELTING POINT</td>
<td>&gt; 1300° C</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Not applicable</td>
<td>FLAMMABILITY</td>
<td>Not applicable</td>
</tr>
<tr>
<td>FLAMMABILITY LIMITS</td>
<td>Not applicable</td>
<td>AUTOIGNITION TEMPERATURE</td>
<td>Not applicable</td>
</tr>
<tr>
<td>DECOMPOSITION TEMPERATURE</td>
<td>&gt; 1300° C</td>
<td>SPEC. GRAVITY / REL. DENSITY</td>
<td>2.2</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>Not applicable</td>
<td>COEFF. – WATER / OIL</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ODOR THRESHOLD</td>
<td>Not applicable</td>
<td>SOLUBILITY – WATER</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>PARTITION COEFFICIENT</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## SECTION 10: STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>CHEMICAL STABILITY</th>
<th>Material is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICAL HAZARDS</td>
<td>Material is not reactive.</td>
</tr>
<tr>
<td>CONDITIONS TO AVOID</td>
<td>Not applicable</td>
</tr>
<tr>
<td>INCOMPATIBLE MATERIALS</td>
<td>Hydrofluoric acid. Products containing silica may react violently with hydrofluoric acid.</td>
</tr>
<tr>
<td>HAZARDOUS DECOMPOSITION PRODUCTS</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

## SECTION 11: TOXICOLOGICAL INFORMATION

### CHRONIC EFFECTS / CARCINOGENICITY

This granular product can contain respirable dust, composed primarily of amorphous silica but possibly with a small fraction of crystalline silica. Amorphous silica is not classifiable as carcinogenic to humans. Crystalline silica, when inhaled as respirable dust, has been classified as carcinogenic to humans over prolonged and sustained exposure. Long-term inhalation of respirable crystalline silica may contribute to the respiratory disease “silicosis”, a non-cancerous lung disease. In a 1997 monograph (Volume 68, “Silica”), the International Agency for Research on Cancer (IARC) concluded that overall the epidemiological findings support increased risk of lung cancer from inhaled crystalline silica resulting from occupational exposure (classified in Group 1), while there was inadequate evidence in humans for the carcinogenicity of amorphous silica (classified in Group 3).

### ROUTE OF EXPOSURE

Inhalation (chronic)

### SYMPTOMS

Not available

### LD50

Not available

### IMMEDIATE AND DELAYED EFFECTS

No immediate effects. See CHRONIC EFFECTS for potential long-term effects when prolonged exposure to levels of crystalline silica in excess of OSHA PEL and ACGIH TLV.

### CORROSIVENESS, SENSITIZATION, IRRITANCY

Not applicable

### REPRODUCTIVE TOXICITY

Not available

### TERATOGENICITY, MUTAGENICITY

Not available

### TOXICOLOGICALLY SYNERGISTIC PRODUCTS

Inhaled smoke from tobacco products (chronic).

## SECTION 12: ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>Non-biodegradable, inert, with little potential for bioaccumulation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSSIBLE EFFECTS</td>
<td>Diatomaceous earth products have shown some efficacy as a natural insecticide, but otherwise have no demonstrated toxicity in regards to aquatic or terrestrial life.</td>
</tr>
</tbody>
</table>
SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
If this material as supplied becomes a waste, use solid waste disposal common to landfill type operations or in slurry to sumps. Not considered a hazardous waste under RCRA (40 CFR Part 261).

PACKAGING DISPOSAL
Dispose of in accordance with applicable laws and regulations, typically solid waste disposal common to landfill type operations.

SECTION 14: TRANSPORT INFORMATION

BASIC SHIPPING INFORMATION
DOT shipping classification 55 (no restrictions). Technical name is “Diatomaceous Earth”.

ADDITIONAL INFORMATION
No special requirements or placarding necessary.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL:
OSHA
Under the Hazard Communication Standards, crystalline silica is classified as a toxic and hazardous substance.

TSCA
Crystalline silica appears on the EPA TSCA inventory list, but is not regulated.

CERCLA
Crystalline silica is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR 302.

SARA TITLE III
Not listed.

NTP
Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as a carcinogen.

INTERNATIONAL:
IARC
“Inhaled crystalline silica from occupational sources” – Group 1 – is classified in IARC as a carcinogen.

WHMIS Classification
Because it is naturally-occurring, and because the respirable crystalline silica content of this product is < 0.1%, it is not regulated by WHMIS

WHMIS Ingredient Disclosure List
Included for disclosure at 1% or greater. Meets criteria for disclosure at 0.1% or greater.

EEC Label (Risk/Safety Phrases)
R48/20, S22, S38

SECTION 16: OTHER INFORMATION

NFPA
4-Extreme
3-High
2-Moderate
1-Slight
0-Insignificant

HMIS
* Health
0 Flammability
0 Reactivity
E Protective Equipment

ORIGINAL ISSUE DATE
November 18, 1985

REVISION DATE
April 1, 2010

REVISION NO.
3

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