SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: BLUE RIBBON CLAY CAT LITTER

CHEMICAL NAME: Montmorillonite Clay

CHEMICAL FAMILY: Clay

MATERIAL USE: Cat Litter

RESTRICTION ON USE: None Known

MANUFACTURER: EP Minerals, LLC., 9785 Gateway Dr., Reno, NV 89521

TELEPHONE NO.: (775) 824 7600 (Monday – Friday 8:00 am PST – 5:00 pm PST)

EMERGENCY TELEPHONE NO.: (775) 824 7600 (Monday – Friday 8:00 am PST – 5:00 pm PST)

SDS DATE OF PREPARATION: May 21, 2018

SECTION 2: HAZARDS IDENTIFICATION

OSHA GHS HAZARD CLASSIFICATION:
- Carcinogen Category 1A
- Specific Target Organ Toxicity, Repeated Exposure Category 1

HAZARDS NOT OTHERWISE CLASSIFIED: None

LABEL ELEMENTS:
DANGER
May cause cancer by inhalation.
Causes damage to lungs through prolonged or repeated exposure.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wear eye protection.
If exposed or concerned: Get medical advice.
Dispose of contents in accordance with local, state and federal regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT IDENTIFICATION</th>
<th>APPROXIMATE CONCENTRATION (%)</th>
<th>C.A.S. NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Montmorillonite Clay (contains 10-15% Crystalline Silica - Quartz)</td>
<td>100%</td>
<td>70892-59-0 14808-60-7</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
Do not induce vomiting. Drink generous amounts of water to reduce bulk and drying effects.

INHALATION
Drink generous amounts of water to reduce bulk and drying effects.

Most important symptoms/effects, acute and delayed
Dust may cause abrasive irritation to eyes. Prolonged skin contact may cause dryness. Dust may cause nose, throat and upper respiratory tract irritation. Prolonged inhalation of respirable dust containing silica may cause a progressive lung disease, silicosis and lung cancer. See Section 11 for additional information.

Indication of immediate medical attention and special treatment, if necessary
Immediate medical attention is not normally required. If dust irritates the eyes, seek medical attention.
SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
Not applicable, the material is not combustible.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL
Not applicable, the material is not combustible.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS
Not applicable, the material is not combustible.

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. Do not breathe dust.

ENVIRONMENTAL PRECAUTIONS
This material is not a significant environmental concern.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP
Vacuum clean spillage or wet sweep. Avoid creating airborne dust. Place in a container for use or disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING
Minimize dust generation. Avoid contact with eyes. Do not breathe dust. Repair or dispose of broken bags. Observe all label precautions and warnings. Flammable or hazardous substances may retain such characteristics after absorption. Care should be taken to store and dispose of waste material in accordance with instructions of manufacturer of substance absorbed and applicable laws. Do not use with hydrofluoric acid or concentrated caustic solutions.

CONDITIONS FOR SAFE STORAGE
Store in a dry place to maintain packaging integrity and product quality. Store product separately from feed, food, pesticides and fertilizers so that cross contaminations does not occur. Do not store near hydrofluoric acid or concentrated caustic solutions. Heat may be generated from a stockpile of product due to natural decomposition of organic material.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:
Note: Processing of sorptive clays is not covered by the OSHA Silica Standard (29CFR1910.1053) and the OSHA PEL associated with that standard.

<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>Montmorillonite Clay, Calcined (as Particulates not otherwise classified)</td>
<td>5 mg/m³ respirable dust</td>
<td>None Established</td>
<td>5 mg/m³ respirable dust</td>
<td>None Established</td>
</tr>
<tr>
<td></td>
<td>15 mg/m³ total dust</td>
<td></td>
<td>15 mg/m³ total dust</td>
<td></td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)</td>
<td>30 mg/m³ total dust</td>
<td>0.025 mg/m³ Respirable dust</td>
<td>30 mg/m³ % SiO₂+2 total dust</td>
<td>0.05 mg/m³ Respirable dust</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ % SiO₂+2 Respirable dust</td>
<td></td>
<td>10 mg/m³ % SiO₂+2 Respirable dust</td>
<td></td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS
Use general or local exhaust ventilation to control dust within recommended exposure limits. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems.

PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE PROTECTION
Goggles to protect from dust

RESPIRATORY PROTECTION
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.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance, Color</td>
<td>Tan to grey</td>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td>Odor threshold</td>
<td>Not applicable</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>Unknown</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
<td>pH (10% Suspension)</td>
<td>Unknown</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>Not applicable</td>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Unknown</td>
<td>Specific gravity / Relative Density</td>
<td>2.2</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not applicable</td>
<td>Partition coefficient – n-octanol/water</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid/gas)</td>
<td>Not applicable</td>
<td>Solubility – water</td>
<td>&lt; 1.0%</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 10: STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>Material is not reactive.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Material is stable.</td>
</tr>
<tr>
<td>Possibility of Hazardous Reactions</td>
<td>Material is not reactive under normal conditions of handling unless mixed with incompatible substances below.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>Unsaturated organic compounds, such as turpentine and vegetable oil, hydrofluoric acid and concentrated caustic solutions may react violently with the product.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### SECTION 11: TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Potential Health Effects</th>
<th>Acute Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>See below</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Dust particles in the eye may cause mechanical, abrasive injury.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>No adverse effects are expected.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Not intended for ingestion but adverse effects are expected from swallowing small amounts. Large amounts may cause intestinal blockage.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Inhalation of dust may cause irritation to the eyes, nose, throat and respiratory tract.</td>
</tr>
<tr>
<td>Chronic Effects</td>
<td>Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains crystalline silica. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling and fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function. Adverse effects would not be expected from normal use of this product as directed on the package labeling.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>IARC, in Monograph 100C, has concluded that crystalline silica inhaled in the form of respirable quartz is carcinogenic to humans (Group 1). Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. The National Toxicology Program (NTP) classifies crystalline silica as a known human carcinogen. Applications and exposure data indicate that exposure to respirable quartz in this product with normal use is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV). The manufacturer is not aware of any scientific or medical data available indicating that exposure to respirable crystalline silica from this product under conditions of normal use as directed, will cause silicosis or cancer. The State of California Office of Environmental Health Hazard Assessment granted a Safe Use Determination for respirable crystalline silica in packaged sorptive mineral-based pet litter, pursuant to its authority under Section 12104 of Title 22 of the California Code of Regulations (June 1999).</td>
</tr>
<tr>
<td>Acute Toxicity Values</td>
<td>Ingredients are not acutely toxic.</td>
</tr>
</tbody>
</table>
SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No toxicity is expected

PERSISTENCE AND DEGRADABILITY: Non-biodegradable, inert.

BIOACCUMULATIVE POTENTIAL: Little potential for bioaccumulation

MOBILITY IN SOIL: No mobility

OTHER ADVERSE EFFECTS: None known

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) as sold. Used product may contain hazardous, flammable, toxic or corrosive materials and must be evaluated for their properties before disposal. Used product may require special handling and disposal under federal RCRA, state or local regulations.

PACKAGING DISPOSAL: Dispose of in accordance with applicable laws and regulations.

SECTION 14: TRANSPORT INFORMATION

BASIC SHIPPING INFORMATION: Not regulated for transport.

ADDITIONAL INFORMATION: No special requirements or placarding necessary.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL:

TSCA: Montmorillonite and Quartz appear on the EPA TSCA inventory list.

CERCLA: Montmorillonite 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.

SECTION 16: OTHER INFORMATION

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

HMIS 0 Health
0 Flammability
0 Reactivity
E Protective Equipment

ORIGINAL ISSUE DATE: December 15, 2009

REVISION DATE: May 21, 2018

REVISION NO.: 3

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