SAFETY DATA SHEET

1. Identification

Material name: VINYL CHIPS - 20# BX CHARCOAL
Material: CVCB P020 150

Recommended use and restriction on use
Recommended use: Article
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information
EUCLID CHEMICAL COMPANY
19218 REDWOOD ROAD
CLEVELAND OH 44110
US

Contact person: EH&S Department
Telephone: 216-531-9222
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards
Carcinogenicity Category 1A

Unknown toxicity - Health
Acute toxicity, oral 3.82 %
Acute toxicity, dermal 8.82 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 100 % or mist

Environmental Hazards
Acute hazards to the aquatic environment Category 3
Chronic hazards to the aquatic environment Category 3

Unknown toxicity - Environment
Acute hazards to the aquatic environment 25 %
Chronic hazards to the aquatic environment 25 %

Label Elements

000000017578
Hazard Symbol:

Signal Word: Danger
Hazard Statement: May cause cancer. Harmful to aquatic life with long lasting effects.

Precautionary Statements
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.
Response: IF exposed or concerned: Get medical advice/attention.
Storage: Store locked up.
Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulfate</td>
<td></td>
<td>7727-43-7</td>
<td>50 - &lt;100%</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>13463-67-7</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Talc</td>
<td></td>
<td>14807-96-6</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Carbon Black</td>
<td></td>
<td>1333-86-4</td>
<td>0.1 - &lt;1%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Move to fresh air.
Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.
Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Personal Protection for First-aid Responders: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No data available.

Accidental release measures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Methods and material for containment and cleaning up:
Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Environmental Precautions:
Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):
Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Safe handling advice:
Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Contact avoidance measures:
No data available.

Hygiene measures:
Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

Storage

Safe storage conditions:
Store locked up.

Safe packaging materials:
No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulfate - Inhalable fraction.</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (02 2014)</td>
</tr>
<tr>
<td>Barium sulfate - Total dust.</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)</td>
</tr>
<tr>
<td>Barium sulfate - Respirable fraction.</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)</td>
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<td>TWA</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>15 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>Barium sulfate - Total dust.</td>
<td>TWA</td>
<td>50 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (2011)</td>
</tr>
<tr>
<td>Substance</td>
<td>Type</td>
<td>Value</td>
<td>Source</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------------</td>
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<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>Total dust</td>
<td>PEL 15 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>Respirable fraction</td>
<td>TWA 15 millions of particles per cubic foot of air</td>
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<td>Titanium dioxide</td>
<td>Total dust</td>
<td>TWA 15 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>Respirable fraction</td>
<td>TWA 5 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>Total dust</td>
<td>TWA 50 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>Talc</td>
<td>Respirable fraction</td>
<td>TWA 2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (2011)</td>
</tr>
<tr>
<td>Talc</td>
<td></td>
<td>TWA 29 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)</td>
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<tr>
<td>Talc</td>
<td>Respirable</td>
<td>TWA 2.4 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)</td>
</tr>
<tr>
<td>Talc</td>
<td></td>
<td>TWA 0.1 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>Inhalable fraction</td>
<td>TWA 3 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (2011)</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>PEL</td>
<td>PEL 3.5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)</td>
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<td>TWA</td>
<td>5 mg/m³</td>
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</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:** Additional Information: Use suitable protective gloves if risk of skin contact.
Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance
- Physical state: solid
- Form: No data available.
- Color: Various
- Odor: Odorless
- Odor threshold: No data available.
- pH: No data available.
- Melting point/freezing point: No data available.
- Initial boiling point and boiling range: No data available.
- Flash Point: No data available.
- Evaporation rate: No data available.
- Flammability (solid, gas): No

Upper/lower limit on flammability or explosive limits
- Flammability limit - upper (%): No data available.
- Flammability limit - lower (%): No data available.
- Explosive limit - upper: No data available.
- Explosive limit - lower: No data available.

Vapor pressure: No data available.
Vapor density: No data available.
Relative density: 1.2

Solubility(ies)
- Solubility in water: Insoluble in water
- Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: May be harmful in contact with skin.

Eye contact: Eye contact is possible and should be avoided.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

- Barium sulfate: LD 50 (Rat): 307 g/kg
- Titanium dioxide: LD 50 (Rat): > 5,000 mg/kg

Dermal

Product: ATEmix: 2,857.14 mg/kg

Inhalation

Product:

Specified substance(s):

- Titanium dioxide: LC 50 (Rat): 3.43 mg/l
Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.

Specified substance(s):
Barium sulfate validated "in vitro" test method Not irritant
Titanium dioxide in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation
Product: No data available.

Specified substance(s):
Barium sulfate Rabbit, 24 - 72 hrs: Not irritating
Titanium dioxide Rabbit, 24 hrs: Not irritating

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide Overall evaluation: Possibly carcinogenic to humans.
Talc Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Possibly carcinogenic to humans.
Carbon Black Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:
Carbon Black Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:
No carcinogenic components identified
Germ Cell Mutagenicity

**In vitro**
Product: No data available.

**In vivo**
Product: No data available.

Reproductive toxicity
Product: No data available.

**Specific Target Organ Toxicity - Single Exposure**
Product: No data available.

**Specific Target Organ Toxicity - Repeated Exposure**
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

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12. Ecological information

Ecotoxicity:

**Acute hazards to the aquatic environment:**

**Fish**
Product: No data available.

**Aquatic Invertebrates**
Product: No data available.

**Specified substance(s):**
- **Barium sulfate**
  EC 50 (Water flea (Daphnia magna), 48 h): 32 mg/l Intoxication
- **Titanium dioxide**
  EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

**Chronic hazards to the aquatic environment:**

**Fish**
Product: No data available.
Aquatic Invertebrates  
Product: No data available.

Toxicity to Aquatic Plants  
Product: No data available.

Persistence and Degradability  
Biodegradation  
Product: No data available.

BOD/COD Ratio  
Product: No data available.

Bioaccumulative potential  
Bioconcentration Factor (BCF)  
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)  
Product: No data available.

Mobility in soil: No data available.

Other adverse effects: Harmful to aquatic life with long lasting effects.

13. Disposal considerations  
Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

14. Transport information  
TDG: Not Regulated

CFR / DOT: Not Regulated
IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulfate</td>
<td>1000 lbs.</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Delayed (Chronic) Health Hazard
Carcinogenicity

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
WARNING
Cancer - www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act

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<tr>
<td>Talc</td>
</tr>
<tr>
<td>Carbon Black</td>
</tr>
</tbody>
</table>
US. Massachusetts RTK - Substance List

Chemical Identity
Barium sulfate
Titanium dioxide
Talc

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Barium sulfate
Titanium dioxide
Talc

US. Rhode Island RTK

Chemical Identity
Barium sulfate
Titanium dioxide
Talc

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

VOC:
Regulatory VOC (less water and exempt solvent) : 0 g/l
VOC Method 310 : 0.00 %
Inventory Status:

Australia AICS: One or more components in this product are not listed on or exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are not listed on or exempt from the Inventory.

US TSCA Inventory: All components in this product are listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals: One or more components in this product are not listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing: One or more components in this product are not listed on or exempt from the Inventory.
16. Other information, including date of preparation or last revision

|再见 | 10/05/2020 |
|Version #: | 2.0 |
|Further Information: | No data available. |
|Disclaimer: | For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. |