SECTION 1. IDENTIFICATION

Product Identifier: DC Concrete Pigment
Product Code(s): Concrete Pigment
Chemical Class: Synthetic/Natural iron oxide Fe3O4, Fe2O3 \( \circ \) H2O, alpha-FeOOH
Application: Colorants (pigments and dyestuffs), inorganic

Supplier Information: Direct Colors LLC
430 E 10th Str.
Shawnee, OK 74801
Telephone Number: +1 (405) 275-6657
Emergency Number: +1 (800) 535-5053

SECTION 2. HAZARDS IDENTIFICATION

HAZCOM Standard Status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the SDS contains valuable information critical to the safe handling and proper use of the product. The SDS should be retained and available for employees and other users of this product.

Physical state: Powder.
Color: Red
Classification of the substance or mixture: Not classified.
Signal word: No signal word.
Hazard statements: No known significant effects or critical hazards.
Hazard Not Otherwise Classified (HNOC) Precautionary statements: None known.
Prevention: Not applicable.
Response: Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>EINECS No.</th>
<th>Substance Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>51274-00-1</td>
<td>257-098-5</td>
<td>Iron Oxide Yellow Pigment</td>
<td>0-100%</td>
</tr>
<tr>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>Iron Oxide Red Pigment</td>
<td>0-100%</td>
</tr>
<tr>
<td>1317-61-9</td>
<td>215-277-5</td>
<td>Iron Oxide black Pigment</td>
<td>0-100%</td>
</tr>
</tbody>
</table>
**CAS No.:72608-12-9,1317-65-3**
Limestone 0-100%

**CAS No.: 1317-60-8**
Iron Oxide /Natural 0-100%

**Chemical characterization:** Synthetic iron oxide Fe2O3.H2O (α-FeooH), C. I. Pigment YELLOW 42 / Fe2O3.αH2O, C. I. Pigment RED 101/ Fe3O4, C. I. Pigment BLACK 11

**Registration Number in REACH:** 01-2119457554-33-0012 / 01-2119457614-35-0039 / 01-211945764628-0012

**Substance/mixture:** Substance

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**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures:**

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Potential acute health effects:**

**Eye contact:** May cause mechanical irritation (abrasion).

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** May cause mechanical irritation (abrasion).

**Ingestion:** No known significant effects or critical hazards.

**Over-exposure signs/symptoms:**

**Eye contact / Inhalation / Skin contact:** No specific data.

**Ingestion:** No specific data.

**Potential chronic health effects:**

No known significant effects or critical hazards.

**Notes to physician:** Treat symptomatically. No specific treatment.

**Protection of first-aiders:** No special measures required

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**SECTION 5: FIRE-FIGHTING MEASURES**
Extinguishing media:

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media: None known.

Special hazards arising from the chemical: No specific fire or explosion hazard.

Hazardous thermal decomposition products: No specific data.

Special protective actions for fire-fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on appropriate personal protective equipment.

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:

Move containers from spill area. Approach release from upwind. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

Reference to other sections:

See Section 1 for emergency contact information.
See Section 13 for waste disposal.
Prevent entry into sewers, water courses, basements or confined areas.

SECTION 7: HANDLING AND STORAGE

Handling:

Precautions for safe handling:

Avoid breathing dust. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Storage:

Conditions for safe storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10).
and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers or liners may retain some product residues.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits:** No exposure limit value known.

**Appropriate engineering controls:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protection:**

**Hygiene measures:**
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection:** Dust-protection mask.

**Skin protection:** Wear suitable protective clothing and gloves. Suitable protective footwear.

**Eye/face protection:** If contact with product is possible, wear safety glasses with side shields.

**Medical Surveillance:** Not available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid. (powder)

**Color:** Red

**Odor:** Odorless

**Odor threshold:** Not available.

**PH:** 3-9

**Boiling point:** Not available.

**Melting point:** Not available

**Flash point:** Not available.

**Evaporation rate:** Not available.

**Explosion limits:** Not available.

**Vapor pressure:** Not available.

**Density:** Not available

**Specific gravity (Relative density):** Not available.

**Solubility:** Insoluble in the following Materials: cold water

**Partition coefficient: noctanol/water:** Not available.

**Vapor density:** Not available.

**Viscosity:** Not available.

**Auto-ignition temperature:** Not available.

**Decomposition temperature:** Not available.
SECTION 10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability: This product is stable.
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid: No specific data.
Incompatible materials: No specific data.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects:
Eye contact: May cause mechanical irritation (abrasion).
Inhalation: No known significant effects or critical hazards.
Skin contact: May cause mechanical irritation (abrasion).
Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:
Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

Potential chronic health effects:
Short term exposure/Potential immediate effects: Not available.
Long term exposure:
Potential delayed effects: Not available.
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product/ingredient name</strong></td>
</tr>
<tr>
<td>D.C. Pigment black 11</td>
</tr>
<tr>
<td>D.C. Pigment yellow 42</td>
</tr>
<tr>
<td>Product/Ingredient name</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>D.C. Pigment black 11</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Iron(III)Oxide</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Irritation/Corrosion**

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
<th>Reversibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. Pigment yellow 42</td>
<td>Eyes-Draise</td>
<td>Rabbit 0</td>
<td>0</td>
<td>50mg 24 hours</td>
<td>7 days</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin-Erythema/Eschar</td>
<td>Rabbit 0</td>
<td>0</td>
<td>500mg</td>
<td>7 days</td>
<td>-</td>
</tr>
<tr>
<td>Iron(III)Oxide</td>
<td>Eyes-Draise</td>
<td>Rabbit 0</td>
<td>0</td>
<td>192 hours 0.1 ml</td>
<td>8 days</td>
<td>Fully reversible in 7 days or less</td>
</tr>
<tr>
<td></td>
<td>Skin-Erythema/Eschar</td>
<td>Rabbit 0</td>
<td>0</td>
<td>4 hours 500mg</td>
<td>7 days</td>
<td></td>
</tr>
<tr>
<td>D.C. Pigment Red 101</td>
<td>No specific data</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Limestone</td>
<td>No specific data</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Conclusion/Summary**

**Eyes:** D.C. Pigment black 11, D.C. Pigment yellow 42, Iron (III) Oxide: Non-irritating.

**Sensitization:**

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>Route of exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. Pigment black 11</td>
<td>Skin</td>
<td>Guinea pig</td>
<td>Not sensitizing.</td>
</tr>
<tr>
<td>D.C. Pigment yellow 42</td>
<td>Skin</td>
<td>Guinea pig</td>
<td>Not sensitizing.</td>
</tr>
<tr>
<td>Iron(III)Oxide</td>
<td>Skin</td>
<td>Guinea pig</td>
<td>Ambiguous.</td>
</tr>
</tbody>
</table>

**Chronic toxicity:**

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. Pigment black 11 / D.C. Pigment yellow 42</td>
<td>Sub-acute NOAEC inhalation Dusts and mists</td>
<td>Rat-Male</td>
<td>&gt;185.6 mg/m3</td>
<td>2 weeks:6 hours per day 5 days per week</td>
</tr>
<tr>
<td>Iron(III)Oxide</td>
<td>Sub-acute NOAEC inhalation Dusts and mists</td>
<td>Rat-Male</td>
<td>10.1 mg/m3</td>
<td>4 weeks:6 hours per day 5 days per week</td>
</tr>
</tbody>
</table>

**Chronic toxicity:**

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. Pigment Red 101</td>
<td>No specific data</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Limestone</td>
<td>No specific data</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### Mutagenicity:

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>Test</th>
<th>Experiment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. Pigment black 11 / D.C. Pigment yellow 42 / Iron(III)Oxide</td>
<td>OECD 476 IN VITRO MAMMALIAN CELL GENE MUTATION TEST</td>
<td>Experiment: In vitro Subject:BACTERIA METABOLIC ACTIVATION:WITH/WITHOUT S9 MIX</td>
<td>Negative</td>
</tr>
<tr>
<td></td>
<td>OECD 473 IN VITRO MAMMALIAN CHROMOSOMAL ABERRATION TEST</td>
<td>Experiment: In vitro Subject:MAMMALIAN-ANIMAL CELL:SOMATIC METABOLIC ACTIVATION: WITH/WITHOUT S9 MIX</td>
<td>Negative</td>
</tr>
</tbody>
</table>

### Carcinogenicity:

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. Pigment black 11 / D.C. Pigment yellow 42 / Iron(III)Oxide</td>
<td>Negative-Intraperitoneal-Rat-Male,Female</td>
<td>600 mg/kg</td>
<td>914 days; 3 injection a 200 mg/kg in 8 weeks.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>CAS#</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. Pigment black 11 / D.C. Pigment yellow 42 / Iron(III)Oxide</td>
<td>1317-61-9 51274-00-1 1309-37-1</td>
<td>Not classified Not classified</td>
<td>Not classified</td>
<td></td>
</tr>
</tbody>
</table>

### Carcinogenicity:

**OSHA Hazardous Components (29CFR 1910.1200). This material is considered a carcinogen by IARC because it contains crystalline silica at levels greater than 0.1%. Inhalation of dust in excess of the TLV may cause mild pulmonary irritation. Long term over-exposure may cause silicosis**

Limestone | No specific data |
SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. Pigment black 11</td>
<td>EU C.2(Acute Toxicity for Daphnia) OECD 209 Activated Sludge, Respiration inhibition Test OECD 203 Fish, Acute Toxicity Test</td>
<td>Acute EC50&gt;10000mg/l Fresh water</td>
<td>Daphnia-Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td>D.C. Pigment yellow 42</td>
<td>ISO 8192 OECD 202 Daphnia sp.Acute Immobilization Test OECD 203 Fish, Acute Toxicity Test</td>
<td>Acute LC50&gt;10000mg/l Fresh water</td>
<td>Bacteria-adapted and activated sludge microorganism Fish-Danio rerio</td>
<td>3 hours</td>
</tr>
<tr>
<td>Iron(III)Oxide</td>
<td>OECD 202 Daphnia sp.Acute Immobilization Test</td>
<td>Acute LC50&gt;10000mg/l Fresh water</td>
<td>Daphnia-Daphnia magna</td>
<td>96 hours</td>
</tr>
<tr>
<td>D.C. Pigment Red 101</td>
<td>No specific data</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Limestone</td>
<td>No specific data</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available.
Persistence and degradability Conclusion/Summary: Not applicable.
Bioaccumulative Potential: Not available.
Mobility in Soil Water Partition: Not available.
Other Adverse Effects: No known significant effects or critical hazards.

SECTION 13: DISPOSAL INFORMATION

Disposal methods: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environment controls laws.
**RCRA classification:** If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

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**SECTION 14. TRANSPORT INFORMATION**

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN Number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>Packing Group</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>IATA-DGR Class</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

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**SECTION 15. REGULATORY INFORMATION**

**SARA311/312:** None.

**SARA title III Section 302 Extremely Hazardous Substances:** None.

**SARA Title III Section 313 Toxic Chemicals:** None.

**US EPA CERCLA Hazardous Substances (40 CFR 302):** None.

**State regulations:**

The following chemicals are specifically listed by individual states: other product specific health and safety data in other sections on the SDS may also be applicable for state requirement. For details on your regulator requirements you should contact the appropriate agency in your state.

**Ingredient Name:** D.C. Pigment black 11 / D.C. Pigment yellow 42 / Iron (III) Oxide

**CAS Number:** 1317-61-9 / 51274-00-1 / 1309-37-1

**State Code:**

**Concentration (%):** 97% max

Massachusetts Substances: MA-S
Massachusetts Extraordinary Hazardous Substances: MA-Extra HS
New Jersey Hazardous Substances: NJ- HS
Pennsylvania RTK Hazardous Substances: PA- RTK HS
Pennsylvania Special Hazardous Substances: PA- Special HS

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**SECTION 15. REGULATORY INFORMATION**

**California Prop.65**

Potential exposure to some or all of the California Prop 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL)

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**U.S. Toxic Substances Control Act:** Listed on the TSCA Inventory.
SECTION 16. OTHER INFORMATION

Hazardous Material Information System:
Health: 0, Flammability: 0, Physical hazards: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

National Fire Protection Association (U.S.A.)
Health: 0, Flammability: 0, Instability/Reactivity: 0 Special:
(0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe)

Revision Date: 12-August-2019
Revision Summary: Not applicable
Reason for revision: Product safety department
Department issuing this data sheet: Product safety department

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