# SAFETY DATA SHEET

**Revision date** 23-Mar-2023 **Revision Number** 1

## 1. Identification

**Product identifier**

**Product Name** PCF-54 Flux Blossom

**Other means of identification**

**Product Code(s)** FG00831

**UN number or ID number** UN3082

**Synonyms** 35541E

**Recommended use of the chemical and restrictions on use**

**Recommended use**

**Restrictions on use**

**Details of the supplier of the safety data sheet**

**Manufacturer Address**
American Art Clay Co Inc
6060 Guion Road
Indianapolis, IN 46254-1222 USA
Toll Free: 1-800-999-5456
CustomerCare@Amaco.com

**Emergency telephone number**

**Emergency Telephone** U.S. Poison Control 1-800-222-1222

## 2. Hazard(s) identification

**Classification**

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 1A |
| Specific target organ toxicity (repeated exposure) | Category 2 |

**Hazards not otherwise classified (HNOC)**
Not applicable

**Label elements**

**Hazard statements**
**Danger**

H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H350 - May cause cancer
H373 - May cause damage to organs through prolonged or repeated exposure

**Physical state** Liquid
**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/clothing and eye/face protection
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing must not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**
IF exposed or concerned: Get medical advice/attention
Specific treatment (see .? on this label)
IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth

**Precautionary Statements - Storage**
Store locked up

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Unknown acute toxicity**
28.387 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

**Other information**
Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

## 3. Composition/information on ingredients

Not applicable.

**Mixture**

| Chemical name | CAS No | Weight-% |
|---|---|---|
| Frits, chemicals | 65997-18-4 | 10 - 20 |
| Quartz | 14808-60-7 | 5 - <10 |
| Limestone | 1317-65-3 | 3 - <5 |
| Titanium dioxide | 13463-67-7 | 3 - <5 |
| Zircon | 14940-68-2 | 1 - <3 |
| Zinc oxide (ZnO) | 1314-13-2 | 1 - <3 |

| | | |
|---|---|---|
| Silicic acid, zirconium salt, cadmium pigment-encapsulated | 102184-95-2 | 0.1 - 1 |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol | 4719-04-4 | 0.1 - 1 |

## 4. First-aid measures

**Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Itching. Rashes. Hives.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** Product is or contains a sensitizer. May cause sensitization by skin contact.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

## 8. Exposure controls/personal protection

**Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Frits, chemicals<br>65997-18-4 | STEL: 10 mg/m³ Zr<br>TWA: 0.01 mg/m³ As<br>TWA: 0.05 mg/m³ Pb<br>TWA: 0.01 mg/m³ Cd<br>TWA: 0.002 mg/m³ Cd respirable particulate matter<br>TWA: 0.5 mg/m³ Sb<br>TWA: 1 mg/m³ Cu dust and mist<br>TWA: 3 mg/m³ W respirable particulate matter in the absence of cobalt<br>TWA: 5 mg/m³ Zr<br>TWA: 0.02 mg/m³ Mn respirable particulate matter<br>TWA: 0.1 mg/m³ Mn inhalable particulate matter | TWA: 10 µg/m³ As<br>TWA: 50 µg/m³ Pb<br>TWA: 0.5 mg/m³ Sb<br>TWA: 5 mg/m³ Zr<br>(vacated) TWA: 0.5 mg/m³ Sb<br>(vacated) TWA: 5 mg/m³ Zr<br>(vacated) STEL: 10 mg/m³ Zr<br>(vacated) Ceiling: 5 mg/m³<br>Ceiling: 5 mg/m³ Mn | IDLH: 5 mg/m³ As<br>IDLH: 9 mg/m³ Cd dust and fume<br>IDLH: 50 mg/m³ Sb<br>IDLH: 100 mg/m³ Cu dust and mist<br>IDLH: 500 mg/m³ Mn<br>IDLH: 25 mg/m³ Zr<br>IDLH: 100 mg/m³ Pb<br>IDLH: 10 mg/m³ Ni<br>Ceiling: 0.002 mg/m³ As 15 min<br>Ceiling: 0.05 mg/m³ V dust and fume 15 min<br>TWA: 0.5 mg/m³ Sb<br>TWA: 1 mg/m³ Cu dust and mist<br>TWA: 1 mg/m³ Mn<br>TWA: 5 mg/m³ except Zirconium tetrachloride Zr<br>TWA: 0.050 mg/m³ Pb<br>TWA: 0.015 mg/m³ except Nickel carbonyl Ni<br>STEL: 3 mg/m³ Mn<br>STEL: 10 mg/m³ Zr |
| Quartz | TWA: 0.025 mg/m³ respirable | TWA: 50 µg/m³ | IDLH: 50 mg/m³ respirable dust |

| | | | |
|---|---|---|---|
| 14808-60-7 | particulate matter | (vacated) TWA: 0.1 mg/m³ respirable dust<br>: (250)/(%SiO2 + 5) mppcf TWA respirable fraction<br>: (10)/(%SiO2 + 2) mg/m ³ TWA respirable fraction | TWA: 0.05 mg/m³ respirable dust |
| Limestone<br>1317-65-3 | - | TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 15 mg/m³ total dust<br>(vacated) TWA: 5 mg/m³ respirable fraction | TWA: 10 mg/m³ total dust<br>TWA: 5 mg/m³ respirable dust |
| Titanium dioxide<br>13463-67-7 | TWA: 10 mg/m³ | TWA: 15 mg/m³ total dust<br>(vacated) TWA: 10 mg/m³ total dust | IDLH: 5000 mg/m³<br>TWA: 2.4 mg/m³ CIB 63 fine<br>TWA: 0.3 mg/m³ CIB 63 ultrafine, including engineered nanoscale |
| Zircon<br>14940-68-2 | STEL: 10 mg/m³ Zr<br>TWA: 5 mg/m³ Zr | TWA: 5 mg/m³ Zr<br>(vacated) TWA: 5 mg/m³ Zr<br>(vacated) STEL: 10 mg/m³ Zr | IDLH: 25 mg/m³ Zr<br>TWA: 5 mg/m³ except Zirconium tetrachloride Zr<br>STEL: 10 mg/m³ Zr |
| Zinc oxide (ZnO)<br>1314-13-2 | STEL: 10 mg/m³ respirable particulate matter<br>TWA: 2 mg/m³ respirable particulate matter | TWA: 5 mg/m³ fume<br>TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 5 mg/m³ fume<br>(vacated) TWA: 10 mg/m³ total dust<br>(vacated) TWA: 5 mg/m³ respirable fraction<br>(vacated) STEL: 10 mg/m³ fume | IDLH: 500 mg/m³<br>Ceiling: 15 mg/m³ dust<br>TWA: 5 mg/m³ dust and fume<br>STEL: 10 mg/m³ fume |
| Silicic acid, zirconium salt, cadmium pigment-encapsulated<br>102184-95-2 | STEL: 10 mg/m³ Zr<br>TWA: 0.01 mg/m³ Cd<br>TWA: 0.002 mg/m³ Cd respirable particulate matter<br>TWA: 5 mg/m³ Zr | TWA: 5 mg/m³ Zr<br>(vacated) TWA: 5 mg/m³ Zr<br>(vacated) STEL: 10 mg/m³ Zr | IDLH: 9 mg/m³ Cd dust and fume<br>IDLH: 25 mg/m³ Zr<br>TWA: 5 mg/m³ except Zirconium tetrachloride Zr<br>STEL: 10 mg/m³ Zr |

**Biological occupational exposure limits**

| Chemical name | ACGIH |
|---|---|
| Frits, chemicals<br>65997-18-4 | 200 µg/L - blood (Lead) - not critical<br>5 µg/g creatinine - urine (Cadmium) - not critical<br>5 µg/L - blood (Cadmium) - not critical |
| Silicic acid, zirconium salt, cadmium pigment-encapsulated<br>102184-95-2 | 5 µg/g creatinine - urine (Cadmium) - not critical<br>5 µg/L - blood (Cadmium) - not critical |

**Appropriate engineering controls**

**Engineering controls** Showers
Eyewash stations
Ventilation systems.

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

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

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**Physical state** Liquid
**Appearance**
**Color**
**Odor**
**Odor threshold**

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | No data available | None known |
| **Melting point / freezing point** | No data available | None known |
| **Initial boiling point and boiling range** | No data available | None known |
| **Flash point** | No data available | None known |
| **Evaporation rate** | No data available | None known |
| **Flammability** | No data available | None known |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Vapor pressure** | No data available | None known |
| **Relative vapor density** | No data available | None known |
| **Relative density** | No data available | None known |
| **Water solubility** | No data available | None known |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient** | No data available | None known |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | None known |

**Other information**

**Explosive properties** No information available
**Oxidizing properties** No information available
**VOC Content (%)** No information available

## 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid** None known based on information supplied.

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products** None known based on information supplied.

## 11. Toxicological information

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives.

**Acute toxicity**

**Numerical measures of toxicity**
No information available

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** 485.10 mg/kg
**ATEmix (dermal)** 8,459.80 mg/kg
**ATEmix (inhalation-dust/mist)** 6.69 mg/l

**Unknown acute toxicity**
28.387 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Frits, chemicals<br>65997-18-4 | > 2000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | - |
| Titanium dioxide<br>13463-67-7 | > 10000 mg/kg ( Rat ) | - | = 5.09 mg/L ( Rat ) 4 h |
| Zinc oxide (ZnO)<br>1314-13-2 | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | > 5700 mg/m³ ( Rat ) 4 h |
| Silicic acid, zirconium salt, cadmium pigment-encapsulated<br>102184-95-2 | - | - | > 5.07 mg/L ( Rat ) 4 h |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol<br>4719-04-4 | = 763 mg/kg ( Rat ) | > 4000 mg/kg ( Rat ) | = 0.4 mg/L ( Rat ) 4 h<br>= 0.338 mg/L ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Frits, chemicals<br>65997-18-4 | A1<br>A3<br>A2 | Group 1<br>Group 2B<br>Group 2A | Known<br>Reasonably Anticipated | X |
| Quartz<br>14808-60-7 | A2 | Group 1 | Known | X |
| Titanium dioxide<br>13463-67-7 | - | Group 2B | - | X |
| Silicic acid, zirconium salt, cadmium pigment-encapsulated<br>102184-95-2 | A2 | Group 1 | Known | X |

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

**NTP (National Toxicology Program)**
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**
X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Target organ effects** Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate.

**Aspiration hazard** No information available.

**Other adverse effects**

**Interactive effects**

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Zinc oxide (ZnO)<br>1314-13-2 | - | LC50: =1.55mg/L (96h, Danio rerio) | - | - |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol<br>4719-04-4 | - | LC50: =16.07mg/L (96h, Danio rerio) | - | - |

**Persistence and degradability**

**Bioaccumulation** There is no data for this product.

**Other adverse effects** No information available.

## 13. Disposal considerations

**Disposal methods**

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

**Contaminated packaging** Do not reuse empty containers.

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste.

## 14. Transport information

**DOT**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **Proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Special Provisions** | 8, 146, 173, 335, IB3, T4, TP1, TP29 |
| **DOT Marine Pollutant** | PP |
| **Marine pollutant** | Frits, chemicals, Silicic acid, zirconium salt, cadmium pigment-encapsulated |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Silicic acid, zirconium salt, cadmium pigment-encapsulated), 9, III, Marine pollutant |
| **Emergency Response Guide Number** | 171 |

**TDG**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Special Provisions** | 16, 99 |
| **Marine pollutant name** | Frits, chemicals, Zinc oxide (ZnO). |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zinc oxide (ZnO)), 9, III |

**MEX**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Technical Name** | Frits, chemicals, Zinc oxide (ZnO) |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zinc oxide (ZnO)), 9, III |
| **Special Provisions** | 274, 331, 335 |

**ICAO (air)**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |

| | |
|---|---|
| **Packing group** | III |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zinc oxide (ZnO)), 9, III |
| **Special Provisions** | A97, A158, A197, A215 |

**IATA**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Technical Name** | Frits, chemicals, Zinc oxide (ZnO) |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zinc oxide (ZnO)), 9, III |
| **Special Provisions** | A97, A158, A197 |
| **ERG Code** | 9L |

**IMDG**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **EmS-No** | F-A, S-F |
| **Special Provisions** | 274, 335, 969 |
| **Marine pollutant** | P |
| **Marine Pollutant** | Frits, chemicals, Zinc oxide (ZnO) |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zinc oxide (ZnO)), 9, III, Marine pollutant |

**RID**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Classification code** | M6 |
| **Special Provisions** | 274, 335, 375, 601 |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zinc oxide (ZnO)), 9, III |

**ADR**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Classification code** | M6 |
| **Tunnel restriction code** | (-) |
| **Special Provisions** | 274, 335, 601, 375 |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zinc oxide (ZnO)), 9, III, (-) |

**ADN**

| | |
|---|---|
| **UN number or ID number** | UN3082 |
| **UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Classification code** | M6 |
| **Special Provisions** | 274, 335, 375, 601 |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zinc oxide (ZnO)), 9, III |
| **Equipment Requirements** | PP |

## 15. Regulatory information

**International Inventories**

**TSCA** Contact supplier for inventory compliance status.

| Chemical name | CAS No | US TSCA Inventory listing | US TSCA inactive/active designation |
|---|---|---|---|
| Water | 7732-18-5 | Present | Active |
| Frits, chemicals | 65997-18-4 | Present | Active |
| Petalite | 1302-66-5 | - | Unknown * |
| Quartz | 14808-60-7 | Present | Active |
| Limestone | 1317-65-3 | Present | Active |
| Nepheline syenite | 37244-96-5 | - | Unknown * |
| Titanium dioxide | 13463-67-7 | Present | Active |
| Zircon | 14940-68-2 | Present | Active |
| Zinc oxide (ZnO) | 1314-13-2 | Present | Active |
| Smectite-group minerals | 12199-37-0 | Present | Active |
| Sodium carboxymethyl cellulose | 9004-32-4 | Present | Active |
| Silicic acid, zirconium salt, cadmium pigment-encapsulated | 102184-95-2 | - | Unknown * |
| Polyphosphoric acids, sodium salts | 68915-31-1 | Present | Active |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol | 4719-04-4 | Present | Active |
| Ethanolamine | 141-43-5 | Present | Active |

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

**DSL/NDSL** Contact supplier for inventory compliance status.
**EINECS/ELINCS** Contact supplier for inventory compliance status.
**ENCS** Contact supplier for inventory compliance status.
**IECSC** Contact supplier for inventory compliance status.
**KECL** Contact supplier for inventory compliance status.
**PICCS** Contact supplier for inventory compliance status.
**AIIC** Contact supplier for inventory compliance status.
**NZIoC** Contact supplier for inventory compliance status.

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AIIC** - Australian Inventory of Industrial Chemicals
**NZIoC** - New Zealand Inventory of Chemicals

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name | SARA 313 - Threshold Values % |
|---|---|
| Frits, chemicals - 65997-18-4 | 0.1<br>1.0 |
| Zinc oxide (ZnO) - 1314-13-2 | 1.0 |
| Silicic acid, zirconium salt, cadmium pigment-encapsulated - 102184-95-2 | 0.1 |

**SARA 311/312 Hazard Categories**
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate

classifications.

**CWA (Clean Water Act)**
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Frits, chemicals 65997-18-4 | - | X | - | - |
| Zinc oxide (ZnO) 1314-13-2 | - | X | - | - |
| Silicic acid, zirconium salt, cadmium pigment-encapsulated 102184-95-2 | - | X | - | - |

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations**

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Water 7732-18-5 | - | - | X |
| Frits, chemicals 65997-18-4 | X | - | X |
| Quartz 14808-60-7 | X | X | X |
| Limestone 1317-65-3 | X | X | X |
| Titanium dioxide 13463-67-7 | X | X | X |
| Zinc oxide (ZnO) 1314-13-2 | X | X | X |
| Silicic acid, zirconium salt, cadmium pigment-encapsulated 102184-95-2 | X | - | X |
| Ethanolamine 141-43-5 | X | X | X |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. Other information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NFPA** | **Health hazards** 2 | **Flammability** 0 | **Instability** 0 | **Special hazards** - |
| **HMIS** | **Health hazards** 2 * | **Flammability** 0 | **Physical hazards** 0 | **Personal protection** X |

*Chronic Hazard Star Legend* ** = Chronic Health Hazard*

**Key or legend to abbreviations and acronyms used in the safety data sheet**
**Legend Section 8: Exposure controls/personal protection**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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**Revision Note**

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**