# SAFETY DATA SHEET

**Revision date** 13-Sep-2022 **Revision Number** 1

## 1. Identification

**Product identifier**

**Product Name** PC-1 Saturation Metallic

**Other means of identification**

**Product Code(s)** FG00018

**Synonyms** 35413T, 35416W

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

**Recommended use** Consumer 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 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 1B |
| 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
H332 - Harmful if inhaled
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
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
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 soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
IF SWALLOWED: Call a POISON CENTER or doctor/physician 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**
5.6191 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
8.2389 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.3491 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.3491 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
15.6491 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Other information**
Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

## 3. Composition/information on ingredients

Not applicable.

**Mixture**

| Chemical name | CAS No | Weight-% |
|---|---|---|
| Frits, chemicals | 65997-18-4 | 20 - 40 |

| | | |
|---|---|---|
| Aluminum oxide (Al2O3) | 1344-28-1 | 3 - <5 |
| Kaolin | 1332-58-7 | 3 - <5 |
| Copper oxide (CuO) | 1317-38-0 | 3 - <5 |
| Zinc oxide (ZnO) | 1314-13-2 | 1 - <3 |
| Lithium carbonate | 554-13-2 | 1 - <3 |
| C.I. Pigment Blue 73 | 68187-40-6 | 1 - <3 |
| Manganese | 7439-96-5 | 1 - <3 |
| 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. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.

**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. Get medical attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

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

**Symptoms** Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.

**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. Avoid breathing vapors or mists.

**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. Avoid breathing vapors or mists.

**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 |

| | | | |
|---|---|---|---|
| | | | 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 |
| Aluminum oxide (Al2O3)<br>1344-28-1 | TWA: 1 mg/m³ respirable particulate matter | TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 10 mg/m³ total dust<br>(vacated) TWA: 5 mg/m³ respirable fraction | - |
| Kaolin<br>1332-58-7 | TWA: 2 mg/m³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter | TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 10 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 |
| Copper oxide (CuO)<br>1317-38-0 | TWA: 1 mg/m³ Cu dust and mist | - | IDLH: 100 mg/m³ Cu dust and mist<br>TWA: 0.1 mg/m³ Cu fume |
| 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 |
| C.I. Pigment Blue 73<br>68187-40-6 | TWA: 0.02 mg/m³ Co inhalable particulate matter | - | - |
| Manganese<br>7439-96-5 | TWA: 0.02 mg/m³ respirable particulate matter<br>TWA: 0.1 mg/m³ inhalable particulate matter | (vacated) TWA: 1 mg/m³ fume<br>(vacated) STEL: 3 mg/m³ fume<br>(vacated) Ceiling: 5 mg/m³<br>Ceiling: 5 mg/m³ fume | IDLH: 500 mg/m³<br>TWA: 1 mg/m³ fume<br>STEL: 3 mg/m³ |

**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 |
| C.I. Pigment Blue 73<br>68187-40-6 | 15 µg/L - urine (Cobalt) - end of shift at end of workweek |

**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** | 410 °C / 770 °F | 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** Excessive heat.

**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. Harmful by inhalation. (based on components).

**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. Coughing and/ or wheezing.

**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)** 336.50 mg/kg
**ATEmix (dermal)** 5,374.00 mg/kg
**ATEmix (inhalation-dust/mist)** 4.11 mg/l

**Unknown acute toxicity**

5.6191 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
8.2389 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
48.3491 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48.3491 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
15.6491 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Frits, chemicals<br>65997-18-4 | > 2000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | - |
| Aluminum oxide (Al2O3)<br>1344-28-1 | > 5000 mg/kg ( Rat ) | - | - |
| Kaolin<br>1332-58-7 | > 5000 mg/kg ( Rat ) | > 5000 mg/kg ( Rat ) | - |
| Copper oxide (CuO)<br>1317-38-0 | - | > 2000 mg/kg ( Rat ) | - |
| Zinc oxide (ZnO)<br>1314-13-2 | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | > 5700 mg/m³ ( Rat ) 4 h |
| Lithium carbonate<br>554-13-2 | = 525 mg/kg ( Rat ) | > 3000 mg/kg ( Rabbit ) | > 2.17 mg/L ( Rat ) 4 h |
| C.I. Pigment Blue 73<br>68187-40-6 | - | - | = 5.3 mg/L ( Rat ) 4 h<br>> 5.3 mg/L ( Rat ) 4 h |
| Manganese<br>7439-96-5 | = 9 g/kg ( Rat ) | - | > 5.14 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 |
| C.I. Pigment Blue 73<br>68187-40-6 | A3 | Group 2B | Reasonably Anticipated | 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, Gastrointestinal tract (GI).

**Aspiration hazard** No information available.

**Other adverse effects**

**Interactive effects**

## 12. Ecological information

**Ecotoxicity** Very 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) | - | - |
| Lithium carbonate | - | LC50: =30.3mg/L (96h, | - | - |

| | | | | |
|---|---|---|---|---|
| 554-13-2 | | Oncorhynchus mykiss) | | |
| Manganese<br>7439-96-5 | - | LC50: >3.6mg/L (96h, Oncorhynchus mykiss) | - | - |
| 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** Not regulated

**UN number or ID number** UN3082
**Packing group** III

## 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 |
| Aluminum oxide (Al2O3) | 1344-28-1 | Present | Active |
| Kaolin | 1332-58-7 | Present | Active |
| Copper oxide (CuO) | 1317-38-0 | Present | Active |
| Zinc oxide (ZnO) | 1314-13-2 | Present | Active |
| C.I. Pigment Blue 73 | 68187-40-6 | Present | Active |
| Lithium carbonate | 554-13-2 | Present | Active |
| Manganese | 7439-96-5 | Present | Active |

| Chemical name | CAS No | US TSCA Inventory listing | US TSCA inactive/active designation |
|---|---|---|---|
| Sodium carboxymethyl cellulose | 9004-32-4 | Present | Active |
| D-gluco-Heptonic acid, monosodium salt, (2.xi.)- | 31138-65-5 | Present | Active |
| Smectite-group minerals | 12199-37-0 | Present | Active |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol | 4719-04-4 | Present | Active |
| Quartz | 14808-60-7 | Present | Active |
| Iron oxide (Fe2O3) | 1309-37-1 | Present | Active |
| Copper(I) oxide | 1317-39-1 | Present | Active |
| Barium oxide | 1304-28-5 | Present | Active |
| Ethanolamine | 141-43-5 | Present | Active |

**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 |
| Aluminum oxide (Al2O3) - 1344-28-1 | 1.0 |
| Copper oxide (CuO) - 1317-38-0 | 1.0 |
| Zinc oxide (ZnO) - 1314-13-2 | 1.0 |
| Lithium carbonate - 554-13-2 | 1.0 |
| C.I. Pigment Blue 73 - 68187-40-6 | 0.1 |
| Manganese - 7439-96-5 | 1.0 |

**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 | - | - |

| | | | | |
|---|---|---|---|---|
| Copper oxide (CuO)<br>1317-38-0 | - | X | - | - |
| Zinc oxide (ZnO)<br>1314-13-2 | - | 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<br>7732-18-5 | - | - | X |
| Frits, chemicals<br>65997-18-4 | X | - | X |
| Aluminum oxide (Al2O3)<br>1344-28-1 | X | X | X |
| Kaolin<br>1332-58-7 | X | X | X |
| Copper oxide (CuO)<br>1317-38-0 | X | - | X |
| Zinc oxide (ZnO)<br>1314-13-2 | X | X | X |
| C.I. Pigment Blue 73<br>68187-40-6 | X | - | X |
| Lithium carbonate<br>554-13-2 | X | X | - |
| Manganese<br>7439-96-5 | X | X | X |
| Quartz<br>14808-60-7 | X | X | X |
| Iron oxide (Fe2O3)<br>1309-37-1 | X | X | X |
| Copper(I) oxide<br>1317-39-1 | X | - | X |
| Barium oxide<br>1304-28-5 | X | - | X |
| Ethanolamine<br>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** 1 **Instability** 0 **Special hazards** -
**HMIS** **Health hazards** 2 * **Flammability** 1 **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

**Revision date** 13-Sep-2022
**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**