

30428-5296

SAFETY DATA SHEET



Revision date 09-Nov-2022

Revision Number 1

1. Identification

Product identifier

Product Name O-23 Sapphire Blue

Other means of identification

Product Code(s) FG00353

UN number or ID number UN3082

Synonyms 38633M

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 |
| 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

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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
 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
 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 water and soap
 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 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

6.037 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 18.037 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

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 |
| Kaolin | 1332-58-7 | 10 - 20 |

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| | | |
|---|------------|---------|
| Quartz | 14808-60-7 | 5 - <10 |
| Calcium fluoride (CaF ₂) | 7789-75-5 | 1 - <3 |
| C.I. Pigment Blue 73 | 68187-40-6 | 1 - <3 |
| Copper(II) carbonate hydroxide | 12069-69-1 | 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. 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**

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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 65997-18-4 | STEL: 10 mg/m ³ Zr TWA: 0.01 mg/m ³ As TWA: 0.05 mg/m ³ Pb TWA: 0.01 mg/m ³ Cd TWA: 0.002 mg/m ³ Cd respirable particulate matter TWA: 0.5 mg/m ³ Sb TWA: 1 mg/m ³ Cu dust and mist TWA: 3 mg/m ³ W respirable particulate matter in the absence of cobalt TWA: 5 mg/m ³ Zr TWA: 0.02 mg/m ³ Mn respirable particulate matter TWA: 0.1 mg/m ³ Mn inhalable particulate matter | TWA: 10 µg/m ³ As TWA: 50 µg/m ³ Pb TWA: 0.5 mg/m ³ Sb TWA: 5 mg/m ³ Zr (vacated) TWA: 0.5 mg/m ³ Sb (vacated) TWA: 5 mg/m ³ Zr (vacated) STEL: 10 mg/m ³ Zr (vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn | IDLH: 5 mg/m ³ As IDLH: 9 mg/m ³ Cd dust and fume IDLH: 50 mg/m ³ Sb IDLH: 100 mg/m ³ Cu dust and mist IDLH: 500 mg/m ³ Mn IDLH: 25 mg/m ³ Zr IDLH: 100 mg/m ³ Pb IDLH: 10 mg/m ³ Ni Ceiling: 0.002 mg/m ³ As 15 min Ceiling: 0.05 mg/m ³ V dust and fume 15 min TWA: 0.5 mg/m ³ Sb TWA: 1 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Mn TWA: 5 mg/m ³ except Zirconium tetrachloride Zr |

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| | | | |
|---|--|--|--|
| | | | TWA: 0.050 mg/m ³ Pb TWA: 0.015 mg/m ³ except Nickel carbonyl Ni STEL: 3 mg/m ³ Mn STEL: 10 mg/m ³ Zr |
| Kaolin 1332-58-7 | TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust |
| Quartz 14808-60-7 | TWA: 0.025 mg/m ³ respirable particulate matter | TWA: 50 µg/m ³ (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction | IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust |
| Calcium fluoride (CaF ₂) 7789-75-5 | TWA: 2.5 mg/m ³ F | TWA: 2.5 mg/m ³ F (vacated) TWA: 2.5 mg/m ³ | IDLH: 250 mg/m ³ F TWA: 2.5 mg/m ³ F |
| C.I. Pigment Blue 73 68187-40-6 | TWA: 0.02 mg/m ³ Co inhalable particulate matter | - | - |
| Copper(II) carbonate hydroxide 12069-69-1 | TWA: 1 mg/m ³ Cu dust and mist | - | IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist |

Biological occupational exposure limits

| Chemical name | ACGIH |
|---|---|
| Frits, chemicals 65997-18-4 | 200 µg/L - blood (Lead) - not critical 5 µg/g creatinine - urine (Cadmium) - not critical 5 µg/L - blood (Cadmium) - not critical |
| Calcium fluoride (CaF ₂) 7789-75-5 | 2 mg/L - urine (Fluoride) - prior to shift 3 mg/L - urine (Fluoride) - end of shift |
| C.I. Pigment Blue 73 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.

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9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state Liquid
 Appearance
 Color
 Odor
 Odor threshold

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--------------------------|-------------------------|
| 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 | 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. |

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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) 335.60 mg/kg
 ATEmix (dermal) 5,961.30 mg/kg
 ATEmix (inhalation-dust/mist) 4.16 mg/l

Unknown acute toxicity

6.037 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

18.037 % 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 65997-18-4 | > 2000 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |
| Kaolin 1332-58-7 | > 5000 mg/kg (Rat) | > 5000 mg/kg (Rat) | - |
| Calcium fluoride (CaF ₂) 7789-75-5 | = 4250 mg/kg (Rat) | - | > 5070 mg/m ³ (Rat) 4 h |
| C.I. Pigment Blue 73 68187-40-6 | - | - | = 5.3 mg/L (Rat) 4 h > 5.3 mg/L (Rat) 4 h |
| Copper(II) carbonate hydroxide 12069-69-1 | = 1350 mg/kg (Rat) = 1495 mg/kg (Rat) | > 2000 mg/kg (Rat) | = 1.2 mg/L (Rat) 4 h |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol 4719-04-4 | = 763 mg/kg (Rat) | > 4000 mg/kg (Rat) | = 0.4 mg/L (Rat) 4 h = 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 sensitization by skin contact.

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 65997-18-4 | A1 A3 A2 | Group 1 Group 2B Group 2A | Known Reasonably Anticipated | X |

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| | | | | |
|---|----|----------|------------------------|---|
| Quartz 14808-60-7 | A2 | Group 1 | Known | X |
| Calcium fluoride (CaF ₂) 7789-75-5 | - | Group 3 | - | - |
| C.I. Pigment Blue 73 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

Group 3 - Not Classifiable as to Carcinogenicity in 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. Toxic to aquatic life with long lasting effects.

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

Persistence and degradability**Bioaccumulation** There is no data for this product.

FG00353 - O-23 Sapphire Blue**Revision date** 09-Nov-2022**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
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 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, Copper(II) carbonate hydroxide.
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Copper(II) carbonate hydroxide), 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, Copper(II) carbonate hydroxide
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Copper(II) carbonate hydroxide), 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, Copper(II) carbonate hydroxide), 9, III
Special Provisions A97, A158, A197, A215

IATA**UN number or ID number** UN3082

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| | |
|-----------------------------------|--|
| UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. |
| Transport hazard class(es) | 9 |
| Packing group | III |
| Technical Name | Frits, chemicals, Copper(II) carbonate hydroxide |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Copper(II) carbonate hydroxide), 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, Copper(II) carbonate hydroxide |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Copper(II) carbonate hydroxide), 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, Copper(II) carbonate hydroxide), 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, Copper(II) carbonate hydroxide), 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, Copper(II) carbonate hydroxide), 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 |

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| Chemical name | CAS No | US TSCA Inventory listing | US TSCA inactive/active designation |
|---|------------|---------------------------|-------------------------------------|
| Frits, chemicals | 65997-18-4 | Present | Active |
| Kaolin | 1332-58-7 | Present | Active |
| Quartz | 14808-60-7 | Present | Active |
| Calcium fluoride (CaF ₂) | 7789-75-5 | Present | Active |
| C.I. Pigment Blue 73 | 68187-40-6 | Present | Active |
| Copper(II) carbonate hydroxide | 12069-69-1 | Present | Active |
| Smectite-group minerals | 12199-37-0 | Present | Active |
| Sodium carboxymethyl cellulose | 9004-32-4 | Present | Active |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol | 4719-04-4 | Present | Active |
| Ethanolamine | 141-43-5 | Present | Active |

DSL/NDSL**EINECS/ELINCS****ENCS****IECSC****KECL****PICCS****AIIC****NZIoC**

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

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 1.0 |
| C.I. Pigment Blue 73 - 68187-40-6 | 0.1 |
| Copper(II) carbonate hydroxide - 12069-69-1 | 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(II) carbonate hydroxide | - | X | - | - |

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| | | | | |
|------------|--|--|--|--|
| 12069-69-1 | | | | |
|------------|--|--|--|--|

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 |
| Kaolin 1332-58-7 | X | X | X |
| Quartz 14808-60-7 | X | X | X |
| Calcium fluoride (CaF ₂) 7789-75-5 | X | - | - |
| C.I. Pigment Blue 73 68187-40-6 | X | - | X |
| Copper(II) carbonate hydroxide 12069-69-1 | 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 |
| <i>Chronic Hazard Star Legend * = Chronic Health Hazard</i> | | | | |

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)

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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 09-Nov-2022**Revision Note****Disclaimer**

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End of Safety Data Sheet