SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1.01

Revision date 29-May-2024

1. Identification	
Product identifier	
Product Name	INK-90 Bright Orange
Other means of identification	
Product Code(s)	FG00881
UN number or ID number	UN3082
Synonyms	34004D
Recommended use of the chemica	l 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 1A
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements Danger

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

16.55235 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 24.0639 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Other information

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Not applicable.

<u>Mixture</u>

Chemical name

Weight-%

FG00881 - INK-90 Bright Orange

Frits, chemicals	65997-18-4	10 - 20
C.I. Pigment Yellow 159	68187-15-5	10 - 20
Zircon, cadmium orange	99749-34-5	10 - 20
Kaolin	1332-58-7	5 - <10
Zircon	14940-68-2	3 - <5
1,2,3-Propanetriol	56-81-5	1 - <3
Aluminum oxide (Al2O3)	1344-28-1	1 - <3
Zinc oxide (ZnO)	1314-13-2	0.1 - 1
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1
Silica, cristobalite	14464-46-1	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	
Large Fire	surrounding environment. 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 impac	t 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, includi	ng 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	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist	(vacated) Ceiling: 5 mg/m ³	IDLH: 25 mg/m ³ Zr
	TWA: 3 mg/m ³ W respirable	Ceiling: 5 mg/m ³ Mn	IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Ni
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and

			
	particulate matter		mist TWA: 1 mg/m³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			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
C.I. Pigment Yellow 159	STEL: 10 mg/m ³ Zr	TWA: 5 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr
68187-15-5	TWA: 5 mg/m ³ Zr	(vacated) TWA: 5 mg/m ³ Zr	TWA: 5 mg/m ³ except Zirconium
		(vacated) STEL: 10 mg/m ³ Zr	tetrachloride Zr
Zircon, cadmium orange	STEL: 10 mg/m ³ Zr	TWA: 5 mg/m ³ Zr	STEL: 10 mg/m ³ Zr IDLH: 9 mg/m ³ Cd dust and
99749-34-5	TWA: 0.01 mg/m ³ Cd	(vacated) TWA: 5 mg/m ³ Zr	fume
	TWA: 0.002 mg/m ³ Cd	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr
	respirable particulate matter		TWA: 5 mg/m ³ except Zirconium
	TWA: 5 mg/m ³ Zr		tetrachloride Zr
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	STEL: 10 mg/m ³ Zr TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	.
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³ respirable fraction	
Zircon	STEL: 10 mg/m ³ Zr	TWA: 5 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr
14940-68-2	TWA: 5 mg/m ³ Zr	(vacated) TWA: 5 mg/m ³ Zr	TWA: 5 mg/m ³ except Zirconium
		(vacated) STEL: 10 mg/m ³ Zr	tetrachloride Zr
1.2.2 Proponetrial		$T_{MA} = 15 \text{ mg/m}^3$ migt total	STEL: 10 mg/m ³ Zr
1,2,3-Propanetriol 56-81-5	-	TWA: 15 mg/m ³ mist, total particulate	-
		TWA: 5 mg/m ³ mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m ³ mist,	
		total particulate (vacated) TWA: 5 mg/m ³ mist,	
		respirable fraction	
Aluminum oxide (Al2O3)	TWA: 1 mg/m ³ respirable	TWA: 15 mg/m ³ total dust	-
1344-28-1	particulate matter	TWA: 5 mg/m ³ respirable	
		fraction (vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
Zinc oxide (ZnO) 1314-13-2	STEL: 10 mg/m ³ respirable particulate matter	TWA: 5 mg/m ³ fume	IDLH: 500 mg/m ³ Ceiling: 15 mg/m ³ dust
1314-13-2	TWA: 2 mg/m ³ respirable	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ dust and fume
	particulate matter	fraction	STEL: 10 mg/m ³ fume
		(vacated) TWA: 5 mg/m ³ fume	
		(vacated) TWA: 10 mg/m ³ total	
		dust (vacated) TWA: 5 mg/m ³	
		respirable fraction	
		(vacated) STEL: 10 mg/m ³	
		fume	
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total	IDLH: 5000 mg/m ³ TWA: 2.4 mg/m ³ CIB 63 fine
13403-07-7		dust	TWA: 2.4 mg/m ³ CIB 63 mm TWA: 0.3 mg/m ³ CIB 63
			ultrafine, including engineered
			nanoscale
Silica, cristobalite	TWA: 0.025 mg/m ³ respirable	TWA: 50 μ g/m ³	IDLH: 25 mg/m ³ respirable dust
14464-46-1	particulate matter	(vacated) TWA: 0.05 mg/m ³ respirable dust	TWA: 0.05 mg/m ³ respirable dust
			ບບຣເ

	: (1/2)(250)/(%SiO2 + 5) mppcf TWA respirable fraction : (1/2)(10)/(%SiO2 + 2) mg/m ³	
	TWA respirable fraction	

Biological occupational exposure limits

Chemical name	ACGIH
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
	5 μg/g creatinine - urine (Cadmium) - not critical 5 μg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch 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. 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 rang	eNo 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	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
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 Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	No data available No data available No data available No data available	None known None known None known None known None known	
Other information Explosive properties Oxidizing properties VOC Content (%)	No information available No information available 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). May be harmful in contact with skin.
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 ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist)	I based on chapter 3.1 of the GHS document 498.90 mg/kg 4,516.40 mg/kg 4.41 mg/l
	ts of ingredient(s) of unknown acute oral toxicity s 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)	-
C.I. Pigment Yellow 159 68187-15-5	-	-	> 5.5 mg/L (Rat)4 h
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1,2,3-Propanetriol 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat)4 h
Aluminum oxide (Al2O3) 1344-28-1	> 5000 mg/kg (Rat)	-	-
Zinc oxide (ZnO) 1314-13-2	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5700 mg/m³ (Rat)4 h
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 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
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	= 5.09 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	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
Zircon, cadmium orange	A2	Group 1	Known	Х
99749-34-5				
Titanium dioxide	-	Group 2B	-	Х
13463-67-7				
Silica, cristobalite	A2	Group 1	Known	Х
14464-46-1				

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. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol 56-81-5	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	_	-
Zinc oxide (ZnO) 1314-13-2	-	LC50: =1.55mg/L (96h, Danio rerio)	-	-
1,3,5-Triazine-1,3,5(2H,4 H,6H)-triethanol 4719-04-4	-	LC50: =16.07mg/L (96h, Danio rerio)	-	-

Persistence and degradability

Bioaccumulation

Component Information

Chemical name	Partition coefficient
1,2,3-Propanetriol	-1.76
56-81-5	

Other adverse effects

No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
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 Ш 8, 146, 173, 335, IB3, T4, TP1, TP29 **Special Provisions DOT Marine Pollutant** PP Marine pollutant Frits, chemicals, Zircon, cadmium orange Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon, cadmium orange), 9, III, Marine pollutant **Emergency Response Guide** 171 Number 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 ш **Special Provisions** 16,99 Marine pollutant name Frits, chemicals, Zircon, cadmium orange. UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon, Description cadmium orange), 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 Ш **Technical Name** Frits, chemicals, Zircon, cadmium orange Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon, cadmium orange), 9, III 274, 331, 335 **Special Provisions** ICAO (air) UN number or ID number LIN3082 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. Transport hazard class(es) 9 Packing group ш UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon, Description cadmium orange), 9, III **Special Provisions** A97, A158, A197, A215 ΙΑΤΑ **UN number or ID number** UN3082 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. Transport hazard class(es) 9 Packing group Ш **Technical Name** Frits, chemicals, Zircon, cadmium orange Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon, cadmium orange), 9, III **Special Provisions** A97, A158, A197 ERG Code 9L IMDG **UN number or ID number** UN3082 Environmentally hazardous substance, liquid, n.o.s. UN proper shipping name Transport hazard class(es) 9 ш Packing group F-A, S-F EmS-No **Special Provisions** 274, 335, 969 Marine pollutant Marine Pollutant Frits, chemicals, Zircon, cadmium orange Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,

cadmium orange), 9, III, Marine pollutant

<u>RID</u>	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	M6
Classification code	274, 335, 375, 601
Special Provisions	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium orange), 9, III
ADR	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	M6
Classification code	(-)
Tunnel restriction code	274, 335, 601, 375
Special Provisions	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium orange), 9, III, (-)
ADN	UN3082
UN number or ID number	Environmentally hazardous substance, liquid, n.o.s.
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	M6
Classification code	274, 335, 375, 601
Special Provisions	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals, Zircon,
Description	cadmium orange), 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
C.I. Pigment Yellow 159	68187-15-5	Present	Active
Zircon, cadmium orange	99749-34-5	-	Unknown *
Kaolin	1332-58-7	Present	Active
Zircon	14940-68-2	Present	Active
Bentone EW	89382-86-5	-	Unknown *
1,2,3-Propanetriol	56-81-5	Present	Active
Aluminum oxide (Al2O3)	1344-28-1	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Zinc oxide (ZnO)	1314-13-2	Present	Active
Quartz	14808-60-7	Present	Active
Polyphosphoric acids, sodium salts	68915-31-1	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
Mica	12001-26-2	-	Unknown *
Titanium dioxide	13463-67-7	Present	Active
Silica, cristobalite	14464-46-1	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. 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		
	1.0		
Zircon, cadmium orange - 99749-34-5	0.1		
Aluminum oxide (Al2O3) - 1344-28-1	1.0		
Zinc oxide (ZnO) - 1314-13-2	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	-	Х	-	-
Zircon, cadmium orange 99749-34-5	-	Х	-	-
Zinc oxide (ZnO) 1314-13-2	-	Х	-	-

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	Х	-	X
Zircon, cadmium orange 99749-34-5	Х	-	X
Kaolin 1332-58-7	Х	X	Х
1,2,3-Propanetriol 56-81-5	Х	X	X
Aluminum oxide (Al2O3) 1344-28-1	Х	X	X
Zinc oxide (ZnO) 1314-13-2	Х	X	X
Quartz 14808-60-7	Х	X	X
Mica 12001-26-2	Х	-	X
Titanium dioxide 13463-67-7	Х	X	X
Silica, cristobalite 14464-46-1	Х	X	Х
Ethanolamine 141-43-5	Х	Х	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information						
NFPA <u>HMIS</u> Chronic Hazard Stat	Health hazards 2 Health hazards 2 * r Legend *= Chronic			Instability 0 Physical hazards 0	Special hazards - Personal protection X	
	abbreviations and acronyms (8: Exposure controls/persona TWA (time-weighted average) Maximum limit value	I protection	ty data sh STEL	<u>eet</u> STEL (Short Term Skin designation	n Exposure Limit)	
Celling 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 ChemID Plus (NLM CIP) 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 Revision Note Disclaimer 29-May-2024

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End of Safety Data Sheet