SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision Number 1.01

Revision date 29-May-2024

1. Identification		
Product identifier		
Product Name	INK-87 Bright Red	
Other means of identification		
Product Code(s)	FG00880	
UN number or ID number	UN3082	
Synonyms	34005E	
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

Juligoi

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

- 9.47235 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 17.5639 % 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

CAS No

Weight-%

FG00880 - INK-87 Bright Red

Zircon, cadmium red	72828-62-7	10 - 20
Frits, chemicals	65997-18-4	10 - 20
Kaolin	1332-58-7	5 - <10
C.I. Pigment Yellow 159	68187-15-5	3 - <5
Zircon	14940-68-2	1 - <3
Aluminum oxide (Al2O3)	1344-28-1	1 - <3
1,2,3-Propanetriol	56-81-5	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 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 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 containm	ent 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
Zircon, cadmium red	STEL: 10 mg/m ³ Zr	TWA: 0.2 mg/m ³ Se	IDLH: 9 mg/m ³ Cd dust and
72828-62-7	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	fume
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.2 mg/m ³ Se	IDLH: 1 mg/m ³ Se
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr
	TWA: 0.2 mg/m ³ Se	(vacated) STEL: 10 mg/m ³ Zr	TWA: 0.2 mg/m ³ except
	TWA: 5 mg/m ³ Zr		Selenium hexafluoride Se
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			STEL: 10 mg/m ³ Zr
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/m ³ 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		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 particulate matter		fume 15 min TWA: 0.5 mg/m³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 0.5 mg/m ³ Cu dust and
	particulate matter		mist TWA: 1 mg/m ³ 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
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	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	
C Diamont Vollow 450		respirable fraction	
C.I. Pigment Yellow 159 68187-15-5	STEL: 10 mg/m ³ Zr TWA: 5 mg/m ³ Zr	TWA: 5 mg/m ³ Zr (vacated) TWA: 5 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr TWA: 5 mg/m ³ except Zirconium
00107-15-5	TWA. 5 mg/ms Zi	(vacated) STEL: 10 mg/m ³ Zr	tetrachloride Zr
		(Vacated) STEL. 10 mg/m² ZI	STEL: 10 mg/m ³ Zr
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
		(· · · · · · · · · · · · · · · · · · ·	STEL: 10 mg/m ³ Zr
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	
1,2,3-Propanetriol	-	TWA: 15 mg/m ³ mist, total	-
56-81-5		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	
Zinc oxide (ZnO)	STEL: 10 mg/m ³ respirable	TWA: 5 mg/m ³ fume	IDLH: 500 mg/m ³
1314-13-2 ´	particulate matter	TWA: 15 mg/m ³ total dust	Ceiling: 15 mg/m ³ dust
	TWA: 2 mg/m ³ respirable	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	
		(vacaled) STEL. 10 mg/m ^e fume	
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	IDLH: 5000 mg/m ³
13463-67-7		(vacated) TWA: 10 mg/m ³ total	TWA: 2.4 mg/m ³ CIB 63 fine
10-00 07-1		dust	TWA: 2.4 mg/m ² CIB 03 mile TWA: 0.3 mg/m ³ CIB 63
			ultrafine, including engineered
			nanoscale
		1	

Silica, cristobalite 14464-46-1	TWA: 0.025 mg/m ³ respirable particulate matter	TWA: 50 µg/m ³ (vacated) TWA: 0.05 mg/m ³	IDLH: 25 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable
		respirable dust : (1/2)(250)/(%SiO2 + 5)	dust
		mppcf TWA respirable fraction	
		: (1/2)(10)/(%SiO2 + 2) mg/m ³ TWA respirable fraction	

Biological occupational exposure limits

Chemical name	ACGIH
Zircon, cadmium red	5 μg/g creatinine - urine (Cadmium) - not critical
72828-62-7	5 µg/L - blood (Cadmium) - not critical
Frits, chemicals	200 µg/L - blood (Lead) - not critical
65997-18-4	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, 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.			

Remarks • Method

None known None known None known None known None known None known

None known None known

9. Physical and chemical properties

Information on basic physical and chemical properties
Physical state
Liquid
Appearance
Color
Odor
Odor
Odor threshold

Property	Values
рН	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling rang	je No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	
Vapor pressure	No data available
Relative vapor density	No data available

Relative density Water solubility Solubility(ies) Partition coefficient	No data available No data available No data available No data available	None known None known None known 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 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 based on chapter 3.1 of the GHS document ATEmix (oral) 315.40 mg/kg ATEmix (dermal) 3,717.70 mg/kg ATEmix (inhalation-dust/mist) 3.82 mg/l Unknown acute toxicity

9.47235 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

17.5639 % 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)	-
C.I. Pigment Yellow 159 68187-15-5	-	-	> 5.5 mg/L (Rat)4 h
Aluminum oxide (Al2O3) 1344-28-1	> 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
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.

table below indicates whether ea	ach agency h	has listed any	v ingredient as a carcinogen	

The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Chemical name	ACGIH	IARC	NTP	OSHA
Zircon, cadmium red 72828-62-7	A2	Group 1 Group 3	Known	Х
Frits, chemicals 65997-18-4	A1 A3 A2	Group 1 Group 2B Group 2A	Known Reasonably Anticipated	Х
Titanium dioxide 13463-67-7	-	Group 2B	-	Х
Silica, cristobalite 14464-46-1	A2	Group 1	Known	Х

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
1,2,3-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 Proper shipping name Transport hazard class(es) Packing group Special Provisions DOT Marine Pollutant Marine pollutant Description Emergency Response Guide Number	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III 8, 146, 173, 335, IB3, T4, TP1, TP29 PP Zircon, cadmium red, Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zircon, cadmium red, Frits, chemicals), 9, III, Marine pollutant 171
TDG	
UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Special Provisions Marine pollutant name Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III 16, 99 Zircon, cadmium red, Frits, chemicals. UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zircon, cadmium red, Frits, chemicals), 9, III
MEX	
UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Zircon, cadmium red, Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zircon, cadmium red, Frits, chemicals), 9, III 274, 331, 335
ICAO (air) UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Description Special Provisions	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zircon, cadmium red, Frits, chemicals), 9, III A97, A158, A197, A215
Special Provisions	A31, A130, A131, A213
IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions ERG Code	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Zircon, cadmium red, Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zircon, cadmium red, Frits, chemicals), 9, III A97, A158, A197 9L
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III F-A, S-F

Special Provisions Marine pollutant Marine Pollutant Description	274, 335, 969 P Zircon, cadmium red, Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zircon, cadmium red, Frits, chemicals), 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. (Zircon, cadmium red, Frits,
Description	chemicals), 9, III
ADR UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Tunnel restriction code Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III M6 (-) 274, 335, 601, 375 UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zircon, cadmium red, Frits, chemicals), 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. (Zircon, cadmium red, Frits,
Description	chemicals), 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
Zircon, cadmium red	72828-62-7	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
C.I. Pigment Yellow 159	68187-15-5	Present	Active
Zircon	14940-68-2	Present	Active
Bentone EW	89382-86-5	-	Unknown *
Aluminum oxide (Al2O3)	1344-28-1	Present	Active
1,2,3-Propanetriol	56-81-5	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	4719-04-4	Present	Active
nol			
Mica	12001-26-2	-	Unknown *

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Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
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.
KECL PICCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. 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 %
Zircon, cadmium red - 72828-62-7	0.1
	1.0
Frits, chemicals - 65997-18-4	0.1
	1.0
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
Zircon, cadmium red 72828-62-7	-	Х	-	-
Frits, chemicals 65997-18-4	-	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	-	-	Х
Zircon, cadmium red 72828-62-7	Х	-	Х
Frits, chemicals 65997-18-4	Х	-	Х
Kaolin 1332-58-7	Х	Х	Х
Aluminum oxide (Al2O3) 1344-28-1	Х	Х	Х
1,2,3-Propanetriol 56-81-5	Х	X	Х
Zinc oxide (ZnO) 1314-13-2	Х	X	Х
Quartz 14808-60-7	Х	Х	Х
Mica 12001-26-2	Х	-	Х
Titanium dioxide 13463-67-7	Х	Х	Х
Silica, cristobalite 14464-46-1	Х	Х	Х
Ethanolamine 141-43-5	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA HMIS Chronic Hazard Star	Health hazards 2 * Fla	ammability 0 ammability 0 h Hazard	Instability 0 Physical hazards 0	Special hazards $\ -$ Personal protection $\ X$	
Key or legend to abbreviations and acronyms used in the safety data sheetLegendSection 8: Exposure controls/personal protectionTWATWA (time-weighted average)STELCeilingMaximum limit value*StructureStin designation					
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 29-May-2024 Revision Note Disclaimer The information provided in this Safety Data Shee

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