**SAFETY DATA SHEET** 

## 30415-1019

# AMACO EST. 1919 brent

**Revision Number** 1

Revision date 01-Feb-2024

1. Identification			
Product identifier			
Product Name	Semi-Moist Underglaze - Electric Blue		
Other means of identification			
Product Code(s)	FG00716		
Synonyms	41428M, 01392H		
Recommended use of the chemical	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**

Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

<u>Hazard statements</u> Danger

Page 1/10



#### Physical state Solid

**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 Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage** Store locked up

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

#### Other information

May be harmful if swallowed. Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

#### 3. Composition/information on ingredients

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%
C.I. Pigment Blue 28	1345-16-0	20 - 40
Quartz	14808-60-7	5 - <10
Kaolin	1332-58-7	5 - <10
Frits, chemicals	65997-18-4	3 - <5
1,2,3-Propanetriol	56-81-5	1 - <3

## 4. First-aid measures

#### **Description of first aid measures**

General advice	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Rinse mouth.

Page 2/10

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.		
Large Fire			
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	No information available.		
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	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.		
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.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.	

## 8. Exposure controls/personal protection

Page 3/10

## Control parameters

## **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
C.I. Pigment Blue 28 1345-16-0	TWA: 0.02 mg/m <sup>3</sup> Co inhalable particulate matter TWA: 1 mg/m <sup>3</sup> respirable particulate matter	-	-
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	<ul> <li>TWA: 50 μg/m<sup>3</sup></li> <li>(vacated) TWA: 0.1 mg/m<sup>3</sup> respirable dust</li> <li>(250)/(%SiO2 + 5) mppcf TWA respirable fraction</li> <li>(10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction</li> </ul>	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Frits, chemicals 65997-18-4	STEL: 10 mg/m <sup>3</sup> Zr TWA: 0.01 mg/m <sup>3</sup> As TWA: 0.05 mg/m <sup>3</sup> Pb TWA: 0.002 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd respirable particulate matter TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 3 mg/m <sup>3</sup> W respirable particulate matter in the absence of cobalt TWA: 5 mg/m <sup>3</sup> Zr TWA: 0.02 mg/m <sup>3</sup> Mn respirable particulate matter TWA: 0.1 mg/m <sup>3</sup> Mn inhalable particulate matter	TWA: 10 μg/m <sup>3</sup> As TWA: 50 μg/m <sup>3</sup> Pb TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 5 mg/m <sup>3</sup> Zr (vacated) TWA: 0.5 mg/m <sup>3</sup> Sb (vacated) TWA: 5 mg/m <sup>3</sup> Zr (vacated) STEL: 10 mg/m <sup>3</sup> Zr (vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 5 mg/m <sup>3</sup> As IDLH: 9 mg/m <sup>3</sup> Cd dust and fume IDLH: 50 mg/m <sup>3</sup> Sb IDLH: 100 mg/m <sup>3</sup> Cu dust and mist IDLH: 500 mg/m <sup>3</sup> Mn IDLH: 25 mg/m <sup>3</sup> Zr IDLH: 100 mg/m <sup>3</sup> Nb IDLH: 100 mg/m <sup>3</sup> Ni Ceiling: 0.002 mg/m <sup>3</sup> As 15 min Ceiling: 0.002 mg/m <sup>3</sup> As 15 min Ceiling: 0.05 mg/m <sup>3</sup> V dust and fume 15 min TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Mn TWA: 5 mg/m <sup>3</sup> except Zirconium tetrachloride Zr TWA: 0.050 mg/m <sup>3</sup> Pb TWA: 0.015 mg/m <sup>3</sup> except Nickel carbonyl Ni STEL: 3 mg/m <sup>3</sup> Mn STEL: 10 mg/m <sup>3</sup> Zr
1,2,3-Propanetriol 56-81-5	-	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	

#### **Biological occupational exposure limits**

Chemical name	ACGIH
C.I. Pigment Blue 28	15 μg/L - urine (Cobalt) - end of shift at end of workweek
1345-16-0	

## Revision date 01-Feb-2024

Page 4 of 85

#### Revision date 01-Feb-2024

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, su	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
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 Solid Appearance Color Odor Odor threshold

Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	geNo 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 limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC Content (%)	No information available	

10. Stability and reactivity	
Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## Information on likely routes of exposure\_

11. Toxicological information

Product Information		
Inhalation	Specific test data for the substance or mixture is not available.	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	Specific test data for the substance or mixture is not available.	
Ingestion	May be harmful if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics		

Symptoms No information available.

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) 2,118.70 mg/kg

ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist)

2,118.70 mg/kg 28,328.60 mg/kg 27.70 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 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

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 No information available.

Page 6/10

#### Germ cell mutagenicity

A1 - Known Human Carcinogen

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
C.I. Pigment Blue 28	A3	Group 2B	Reasonably Anticipated	Х
1345-16-0				
Quartz	A2	Group 1	Known	Х
14808-60-7				
Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		

Legend ACGIH (American Conference of Governmental Industrial Hygienists)

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 No information available. **Reproductive toxicity** 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

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	-	-
56-81-5		Oncorhynchus mykiss)		

|--|

#### Persistence and degradability

#### Bioaccumulation

#### **Component Information**

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

Other adverse effects

No information available.

13. Disposal consideration	IS
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

## 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
Corn syrup	8029-43-4	Present	Active
C.I. Pigment Blue 28	1345-16-0	Present	Active
Water	7732-18-5	Present	Active
Dextrin	9004-53-9	Present	Active
Kaolin	1332-58-7	Present	Active
Quartz	14808-60-7	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
Frits, chemicals	65997-18-4	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	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

Page 8/10

confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

EINECS/ELINCSContENCSContIECSCContKECLContPICCSContAllCCont	act supplier for inventory compliance status. act supplier for inventory compliance status.
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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 %
C.I. Pigment Blue 28 - 1345-16-0	0.1
Frits, chemicals - 65997-18-4	0.1
	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	-	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
C.I. Pigment Blue 28	Х	-	Х
1345-16-0			
Water	-	-	Х

7732-18-5			
Kaolin 1332-58-7	X	Х	Х
Quartz 14808-60-7	X	X	Х
Frits, chemicals 65997-18-4	X	-	Х
1,2,3-Propanetriol 56-81-5	X	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA HMIS Chronic Hazard Star Le	Health hazards * 2 1 Flamm	nability 0 nability 0 azard	Instability 0 Physical hazards 0	Special hazards - Personal protection X
Legend Section 8: TWA	bbreviations and acronyms used in t Exposure controls/personal protect TWA (time-weighted average) Maximum limit value		neet STEL (Short Tern Skin designation	n Exposure Limit)
Agency for Toxic Su U.S. Environmental European Food Safe EPA (Environmental Acute Exposure Gui U.S. Environmental Food Research Jour Hazardous Substand International Uniform National Institute of Australia National In NIOSH (National Ins National Library of M National Library of M National Toxicology New Zealand's Cher Organization for Ecco	ideline Level(S) (AÉGL(S)) Protection Agency Federal Insecticide, Protection Agency High Production Vo rnal cc Database n Chemical Information Database (IUC Technology and Evaluation (NITE) ndustrial Chemicals Notification and Ass stitute for Occupational Safety and Hea Medicine's ChemID Plus (NLM CIP) Medicine's PubMed database (NLM PU Program (NTP) mical Classification and Information Da ponomic Co-operation and Development ponomic Co-operation and Development	R) Fungicide, and R lume Chemicals LID) sessment Scheme lth) BMED) tabase (CCID) Environment, He High Production	odenticide Act • (NICNAS) alth, and Safety Publication volume Chemicals Program	
date of its publicat transportation, dis relates only to the	01-Feb-2024 rovided in this Safety Data Sheet is c tion. The information given is design posal and release and is not to be co specific material designated and ma process, unless specified in the tex End o	ed only as a guid onsidered a warr ly not be valid for	lance for safe handling, u anty or quality specificat r such material used in c	use, processing, storage, ion. The information

Item Numbers: 30415-1019

Revision Number 1

## SAFETY DATA SHEET

AMACO brent

Revision date 31-Jan-2024

1. Identification			
Product identifier			
Product Name	Semi-Moist Underglaze - Amethyst		
Other means of identification			
Product Code(s)	FG00709		
Synonyms	41429N, 01346R		
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
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC) Not applicable

Label elements

Hazard statements Danger

Page 1/11



Physical state Solid 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 Do not breathe dust/fume/gas/mist/vapors/spray

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention 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

179.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### Other information

Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

#### 3. Composition/information on ingredients

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%
C.I. Pigment Red 233	68187-12-2	20 - 40
Kaolin	1332-58-7	5 - <10
Frits, chemicals	65997-18-4	5 - <10
Wollastonite (Ca(SiO3))	13983-17-0	3 - <5
Quartz	14808-60-7	3 - <5
C.I. Pigment Blue 73	68187-40-6	1 - <3
1,2,3-Propanetriol	56-81-5	1 - <3

### 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

Page 2/11

## Revision date 31-Jan-2024

FG00709 - Semi-Moist Underg	laze - Amethyst	Revision date 31-Jan-2024
	medical advice/attention.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least Consult a physician.	15 minutes, lifting lower and upper eyelids.
Skin contact	Wash skin with soap and water.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.	
Most important symptoms and effe	ects, both acute and delayed	
Symptoms	No information available.	
Indication of any immediate medica	al attention and special treatment needed	
Note to physicians	Treat symptomatically.	
5. Fire-fighting measures		
b. The lighting measures		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate surrounding environment.	to local circumstances and the
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	No information available.	
Explosion data Sensitivity to mechanical impac	ct None.	
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing Use personal protection equipment.	apparatus and full firefighting turnout gear
6. Accidental release meas	sures	
Personal precautions, protective e	quipment and emergency procedures	
Personal precautions	Ensure adequate ventilation. Use personal protect personnel to safe areas.	ctive equipment as required. Evacuate
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

Page 3/11

## Page 13 of 85

FG00709 - Semi-Moist Under	Revision date 31-Jan-2024	
Advice on safe handling	Handle in accordance with good industrial hygiene and sa skin, eyes or clothing. Ensure adequate ventilation.	afety practice. Avoid contact with
Conditions for safe storage, inclu	uding any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ven of children.	tilated place. Keep out of the reach

## 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
C.I. Pigment Red 233	ACGITTEV	TWA: 0.5 mg/m <sup>3</sup> Cr	IDLH: 25 mg/m <sup>3</sup> Cr(III)
68187-12-2	_	(vacated) TWA: 0.5 mg/m <sup>3</sup> Cr	TWA: $0.5 \text{ mg/m}^3 \text{ Cr}$
Kaolin	TWA: 2 mg/m <sup>3</sup> particulate	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
	and <1% crystalline silica,	fraction	· · · · · · · · · · · · · · · · · · ·
	respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Frits, chemicals	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 10 μg/m³ As	IDLH: 5 mg/m <sup>3</sup> As
65997-18-4	TWA: 0.01 mg/m <sup>3</sup> As	TWA: 50 µg/m <sup>3</sup> Pb	IDLH: 9 mg/m <sup>3</sup> Cd dust and
	TWA: 0.05 mg/m <sup>3</sup> Pb	TWA: $0.5 \text{ mg/m}^3 \text{ Sb}$	fume
	TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd	TWA: 5 mg/m <sup>3</sup> Zr (vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 50 mg/m <sup>3</sup> Sb IDLH: 100 mg/m <sup>3</sup> Cu dust and
	respirable particulate matter	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb (vacated) TWA: 5 mg/m <sup>3</sup> Zr	mist
	TWA: 0.5 mg/m <sup>3</sup> Sb	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 500 mg/m <sup>3</sup> Mn
	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> Zr
	TWA: 3 mg/m <sup>3</sup> W respirable	Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 100 mg/m <sup>3</sup> Pb
	particulate matter in the absence		IDLH: 10 mg/m <sup>3</sup> Ni
	of cobalt		Ceiling: 0.002 mg/m³ As 15 min
	TWA: 5 mg/m <sup>3</sup> Zr		Ceiling: 0.05 mg/m <sup>3</sup> V dust and
	TWA: 0.02 mg/m <sup>3</sup> Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m <sup>3</sup> Sb
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable		TWA: 1 mg/m <sup>3</sup> Cu dust and
	particulate matter		mist
			TWA: 1 mg/m <sup>3</sup> Mn TWA: 5 mg/m <sup>3</sup> except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m <sup>3</sup> Pb
			TWA: 0.015 mg/m <sup>3</sup> except
			Nickel carbonyl Ni
			STEL: 3 mg/m <sup>3</sup> Mn
			STEL: 10 mg/m <sup>3</sup> Zr
Wollastonite (Ca(SiO3))	TWA: 1 mg/m <sup>3</sup> inhalable	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust
13983-17-0	particulate matter, particulate	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
	matter containing no asbestos	fraction	
	and <1% crystalline silica	(vacated) TWA: 15 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	respirable fraction TWA: 50 µg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> respirable dust
14000-00-7		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
L			L]

## Revision date 31-Jan-2024

#### Revision date 31-Jan-2024

		: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction	
C.I. Pigment Blue 73 68187-40-6	TWA: 0.02 mg/m <sup>3</sup> Co inhalable particulate matter	-	-
1,2,3-Propanetriol 56-81-5	-	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, 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
C.I. Pigment Blue 73 68187-40-6	15 $\mu$ g/L - urine (Cobalt) - end of shift at end of workweek

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
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 Physical state Appearance Color Odor Odor threshold	<u>chemical properties</u> Solid	
Property	Values_	Remark
pH	No data available	None kn
Melting point / freezing point	No data available	None kn
Initial boiling point and boiling ran	geNo data available	None kn
Flash point	No data available	None kn
Evaporation rate	No data available	None kn
Flammability	No data available	None kn
Flammability Limit in Air		None kn

Remarks • Method None known None known None known None known None known None known

Page 5/11

Upper flammability or explosive limits	No data available	
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	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	

<b>10. Stability and reactivity</b>	
Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

Information on likely routes of exposure

Product Information				
Inhalation	Specific test data for the substance or mixture is not available.			
Eye contact	Specific test data for the substance or mixture is not available.			
Skin contact	Specific test data for the substance or mixture is not available.			
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	No information available.			
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)       1,822.90 mg/kg         ATEmix (dermal)       21,322.00 mg/kg         ATEmix (inhalation-dust/mist)       24.90 mg/l				

Page 6/11

## Revision date 31-Jan-2024

#### Revision date 31-Jan-2024

#### Unknown acute toxicity

179.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### **Component Information**

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
C.I. Pigment Red 233 -		-	> 5.4 mg/L (Rat)4 h	
-	68187-12-2		> 5000 mg/kg (Rat)	
	Kaolin 1332-58-7	Kaolin > 5000 mg/kg ( Rat ) 1332-58-7		-
	Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Wollastonite (Ca(SiO3))         > 5000 mg/kg ( Rat )           13983-17-0		-	-	
Γ	C.I. Pigment Blue 73 68187-40-6	-	-	= 5.3 mg/L (Rat)4 h > 5.3 mg/L (Rat)4 h
	1,2,3-Propanetriol 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 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	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen.

Classification based on data available for nogenicity ingredients. May cause cancer.

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

Chemical name	ACGIH	IARC	NTP	OSHA
C.I. Pigment Red 233 68187-12-2	-	Group 3	-	-
Frits, chemicals 65997-18-4	A1 A3 A2	Group 1 Group 2B Group 2A	Known Reasonably Anticipated	×
Wollastonite (Ca(SiO3)) 13983-17-0	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	Х
C.I. Pigment Blue 73 68187-40-6	A3	Group 2B	Reasonably Anticipated	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

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	_	-
56-81-5		Oncorhynchus mykiss)		

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 consideration	S
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	

Page 8/11

Item Numbers: 30415-1019

Page 18 of 85

DOT

Not regulated

## 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
Corn syrup	8029-43-4	Present	Active
C.I. Pigment Red 233	68187-12-2	Present	Active
Water	7732-18-5	Present	Active
Kaolin	1332-58-7	Present	Active
Dextrin	9004-53-9	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Wollastonite (Ca(SiO3))	13983-17-0	Present	Active
Quartz	14808-60-7	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
C.I. Pigment Blue 73	68187-40-6	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
Tin oxide (SnO2)	18282-10-5	Present	Active
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	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 EINECS/ELINCS ENCS IECSC	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. 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

Page 9/11

## Revision date 31-Jan-2024

Page 20 of 85

#### FG00709 - Semi-Moist Underglaze - Amethyst

#### Revision date 31-Jan-2024

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 %
C.I. Pigment Red 233 - 68187-12-2	1.0
Frits, chemicals - 65997-18-4	0.1
	1.0
C.I. Pigment Blue 73 - 68187-40-6	0.1

#### SARA 311/312 Hazard Categories

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

#### CWA (Clean Water Act)

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

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
C.I. Pigment Red 233 68187-12-2	-	Х	-	-
Frits, chemicals 65997-18-4	-	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
C.I. Pigment Red 233 68187-12-2	Х	-	X
Water 7732-18-5	-	-	X
Kaolin 1332-58-7	Х	X	X
Frits, chemicals 65997-18-4	Х	-	X
Wollastonite (Ca(SiO3)) 13983-17-0	Х	X	X
Quartz 14808-60-7	Х	X	X
C.I. Pigment Blue 73 68187-40-6	Х	-	X
1,2,3-Propanetriol 56-81-5	Х	X	X
Tin oxide (SnO2) 18282-10-5	X	X	-

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

Page 10 / 11

FG00709 - Semi	-Moist Underglaze - Ameth	nyst	R	evision date 31-Jan-2024
NFPA HMIS Chronic Hazard Star L	Health hazards 1 Health hazards * 2 egend *= Chronic H	Flammability 0 Flammability 0 dealth Hazard	Instability 0 Physical hazards 0	Special hazards - Personal protection X
	bbreviations and acronyms u		heet	
	Exposure controls/personal			
TWA	TWA (time-weighted average)	STEL	STEL (Short Te	erm Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation	n
Agency for Toxic SL U.S. Environmental European Food Safe EPA (Environmenta Acute Exposure Gui U.S. Environmental Food Research Jou Hazardous Substan International Uniforr National Institute of Australia National Ins National Library of M National Library of M National Toxicology New Zealand's Cher Organization for Ecc	ce Database n Chemical Information Database Technology and Evaluation (NI adustrial Chemicals Notification stitute for Occupational Safety a Medicine's ChemID Plus (NLM C Medicine's PubMed database (N Program (NTP) mical Classification and Information onomic Co-operation and Devel ponomic Co-operation and Devel	<ul> <li>(ATSDR)</li> <li>Database</li> <li>Database</li> <li>Database</li> <li>Database</li> <li>Database</li> <li>Database</li> <li>Database</li> <li>Database</li> <li>See (IUCLID)</li> <li>TE)</li> <li>and Assessment Schem</li> <li>and Health)</li> <li>CIP)</li> <li>ULM PUBMED)</li> <li>Database (CCID)</li> <li>opment Environment, He</li> <li>opment High Production</li> </ul>	Rodenticide Act e (NICNAS) ealth, and Safety Publicati Volume Chemicals Progr	
Revision date Revision Note <u>Disclaimer</u> The information pr	31-Jan-2024 ovided in this Safety Data Sh		st of our knowledge. inf	ormation 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

Item Numbers: 30415-1019

Revision Number 1

## SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision date 01-Feb-2024

1. Identification			
Product identifier			
Product Name	Semi-Moist Underglazes - Violet		
Other means of identification			
Product Code(s)	FG00735		
Synonyms	41430P, 01374D		
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			
<u>Classification</u>			
Specific target organ toxicity (repeated exposure) Category 2			
Hazards not otherwise classified (HNOC) Not applicable			
Label elements			
<u>Hazard statements</u> Warning			

H373 - May cause damage to organs through prolonged or repeated exposure

Page 1/10

Page 22 of 85

#### Revision date 01-Feb-2024



Physical state Solid Precautionary Statements - Prevention Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

May be harmful if swallowed. Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

## 3. Composition/information on ingredients

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%
C.I. Pigment Red 233	68187-12-2	40 - 60
Quartz	14808-60-7	3 - <5
Kaolin	1332-58-7	3 - <5
Frits, chemicals	65997-18-4	3 - <5
1,2,3-Propanetriol	56-81-5	1 - <3

4. First-aid measures		
Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
	Page 2/10	

Item Numbers: 30415-1019

Page 23 of 85

Revision date	01-Feb-2024

5. Fire-fighting measures	
Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the 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	No information available.
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 meas	sures
	SURES
Personal precautions, protective ed	quipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment as required. Evacuate
Personal precautions, protective ed	<b>quipment and emergency procedures</b> Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Refer to protective measures listed in Sections 7 and 8.
Personal precautions, protective ed Personal precautions Other information	<b>quipment and emergency procedures</b> Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage		
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.	

## 8. Exposure controls/personal protection

## Control parameters

## Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
C.I. Pigment Red 233	-	TWA: 0.5 mg/m <sup>3</sup> Cr	IDLH: 25 mg/m <sup>3</sup> Cr(III)
68187-12-2		(vacated) TWA: 0.5 mg/m <sup>3</sup> Cr	TWA: 0.5 mg/m <sup>3</sup> Cr

#### Revision date 01-Feb-2024

	I		
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	TWA: 50 μg/m³	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
		TWA respirable fraction	
Kaolin	TWA: 2 mg/m <sup>3</sup> particulate	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Frits, chemicals	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m <sup>3</sup> As
65997-18-4	TWA: 0.01 mg/m <sup>3</sup> As	TWA: 50 µg/m <sup>3</sup> Pb	IDLH: 9 mg/m <sup>3</sup> Cd dust and
	TWA: 0.05 mg/m <sup>3</sup> Pb	TWA: 0.5 mg/m <sup>3</sup> Sb	fume
	TWA: 0.01 mg/m <sup>3</sup> Cd	TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 50 mg/m <sup>3</sup> Sb
	TWA: 0.002 mg/m <sup>3</sup> Cd	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 100 mg/m <sup>3</sup> Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	mist
	TWA: 0.5 mg/m <sup>3</sup> Sb	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 500 mg/m <sup>3</sup> Mn
	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> Zr
	TWA: 3 mg/m <sup>3</sup> W respirable	Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 100 mg/m <sup>3</sup> Pb
	particulate matter in the absence	6 6	IDLH: 10 mg/m <sup>3</sup> Ni
	of cobalt		Ceiling: 0.002 mg/m³ As 15 min
	TWA: 5 mg/m <sup>3</sup> Zr		Ceiling: 0.05 mg/m <sup>3</sup> V dust and
	TWA: 0.02 mg/m <sup>3</sup> Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m <sup>3</sup> Sb
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable		TWA: 1 mg/m <sup>3</sup> Cu dust and
	particulate matter		mist
			TWA: 1 mg/m <sup>3</sup> Mn
			TWA: 5 mg/m <sup>3</sup> except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m <sup>3</sup> Pb
	1		TWA: 0.015 mg/m <sup>3</sup> except
			Nickel carbonyl Ni
			STEL: 3 mg/m <sup>3</sup> Mn
			STEL: 10 mg/m <sup>3</sup> Zr
1,2,3-Propanetriol	_	TWA: 15 mg/m <sup>3</sup> mist, total	
56-81-5	-	particulate	-
30-01-3		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	

#### **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

## Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems.

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

Eye/face protection

Page 4 / 10

No special protective equipment required.

Skin and body protection	No special protective equipment required.
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	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Information on basic physical and o	chemical properties	
Physical state	Solid	
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		None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC Content (%)	No information available	
10. Stability and reactivity		
Reactivity	No information available.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	None known based on information supplied.	
Incompatible materials	None known based on information su	pplied.
Hazardous decomposition products	s None known based on information su	pplied.

Page 5/10

Item Numbers: 30415-1019

Revision date 01-Feb-2024

Page 26 of 85

#### Revision date 01-Feb-2024

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	May be harmful if swallowed.

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

Symptoms	No information available.
----------	---------------------------

#### Acute toxicity

Numerical measures of toxicity No information available

#### The following values are calculated based on chapter 3.1 of the GHS document ATEmix (

ATEmix (oral)	
ATEmix (dermal)	
ATEmix (inhalation-dust/mist)	

2,172.60 mg/kg 30,211.50 mg/kg 27.90 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
C.I. Pigment Red 233	-	-	> 5.4 mg/L (Rat)4 h
68187-12-2			
Kaolin	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1332-58-7			
Frits, chemicals	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
65997-18-4			
1,2,3-Propanetriol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat)4 h
56-81-5			

#### 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	No information available.
Germ cell mutagenicity	No information available.

Carcinogenicity

#### No information available. The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	OSHA
C.I. Pigment Red 233 68187-12-2	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	Х
Frits, chemicals 65997-18-4	A1 A3 A2	Group 1 Group 2B Group 2A	Known Reasonably Anticipated	Х

#### Revision date 01-Feb-2024

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 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 effectsLiver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Co 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

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	-	-
56-81-5		Oncorhynchus mykiss)		

#### Persistence and degradability

### Bioaccumulation

 Component Information
 Partition coefficient

 Chemical name
 Partition coefficient

 1,2,3-Propanetriol
 -1.76

1,2,3-Propanetriol	-1.76
56-81-5	

7/10

Other adverse effects

No information available.

Page

Revision date 01-Feb-2024

13. Disposal consideration	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

## 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
Corn syrup	8029-43-4	Present	Active
C.I. Pigment Red 233	68187-12-2	Present	Active
Water	7732-18-5	Present	Active
Dextrin	9004-53-9	Present	Active
Kaolin	1332-58-7	Present	Active
Quartz	14808-60-7	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Feldspar	68476-25-5	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
Tin oxide (SnO2)	18282-10-5	Present	Active
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	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.
Logondi	

Legend: TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Page 8/10

Revision date 01-Feb-2024

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

PICCS - Philippines inventory of Chemicals and Chemical Substance

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 %	
C.I. Pigment Red 233 - 68187-12-2	1.0	
Frits, chemicals - 65997-18-4	0.1	
	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	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities			Substances
C.I. Pigment Red 233 68187-12-2	-	Х	-	-
Frits, chemicals 65997-18-4	-	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
C.I. Pigment Red 233 68187-12-2	Х	-	Х
Water 7732-18-5	-	-	Х
Kaolin 1332-58-7	Х	X	Х
Quartz 14808-60-7	Х	X	Х
Frits, chemicals 65997-18-4	Х	-	Х
Feldspar 68476-25-5	Х	-	Х
1,2,3-Propanetriol 56-81-5	Х	X	Х
Tin oxide (SnO2) 18282-10-5	Х	X	-

Revision date 01-Feb-2024

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA HMIS	Health hazards 1 Health hazards * 2 1	Flammability 0 Flammability 0	Instability 0 Physical hazards (	Special hazards - 0 Personal protection X
Legend Section 8: Ex TWA TW Ceiling Max Key literature reference Agency for Toxic Subst U.S. Environmental Pro European Food Safety EPA (Environmental Pro Curopean Food Safety EPA (Environmental Pro U.S. Environmental Pro U.S. Environmental Pro U.S. Environmental Pro U.S. Environmental Pro Hazardous Substance International Uniform C National Institute of Tee Australia National Indus NIOSH (National Institu National Library of Med National Library of Med National Library of Med National Toxicology Pro New Zealand's Chemic Organization for Econo	rotection Agency) ine Level(s) (AEGL(s)) otection Agency Federal Insec- otection Agency Federal Insec- otection Agency High Product I Database hemical Information Database chnology and Evaluation (NI strial Chemicals Notification te for Occupational Safety a licine's ChemID Plus (NLM C licine's ChemID Plus (NLM C licine's PubMed database (N ogram (NTP) al Classification and Informat mic Co-operation and Devel mic Co-operation and Devel	protection STEL * seed to compile the (ATSDR) Database ecticide, Fungicide, a ction Volume Chemic se (IUCLID) TE) and Assessment Scl and Health) CIP) ILM PUBMED) ation Database (CCII opment Environmen opment High Produc	STEL (Short T Skin designati SDS nd Rodenticide Act als neme (NICNAS)	ations
date of its publication transportation, dispos relates only to the spe	The information given is sal and release and is not a sal a s	eet is correct to the designed only as a to be considered a and may not be vali	guidance for safe handlin warranty or quality specifi d for such material used i	nformation and belief at the ng, use, processing, storage, ication. The information in combination with any other

#### End of Safety Data Sheet

Item Numbers: 30415-1019

Page 10/10

**Revision Number** 1

## SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision date 01-Feb-2024

1. Identification		
Product identifier		
Product Name	Semi-Moist Underglaze - Red	
Other means of identification		
Product Code(s)	FG00730	
Synonyms	41425J, 01339H	
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
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC) Not applicable

## Label elements

#### Revision date 01-Feb-2024

## Hazard statements Danger H302 - Harmful if swallowed H332 - Harmful if inhaled H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure



#### Physical state Solid

#### 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 Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention 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

171.67 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

177.76 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Other information

May be harmful in contact with skin. 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-%
Zircon, cadmium red	72828-62-7	20 - 40
Quartz	14808-60-7	10 - 20
Kaolin	1332-58-7	5 - <10
Frits, chemicals	65997-18-4	5 - <10
1,2,3-Propanetriol	56-81-5	1 - <3
C.I. Pigment Blue 73	68187-40-6	0.1 - 1

## FG00730 - Semi-Moist Underglaze - Red

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	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. If symptoms persist, call a physician.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
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 dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medica	al attention and special treatment needed	
Note to physicians	Treat symptomatically.	
5. Fire-fighting measures		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.	
Large Fire Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	No information available.	
Explosion data Sensitivity to mechanical impac	et 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 meas	sures	
Personal precautions, protective ed	quipment and emergency procedures	
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containm	ent and cleaning up	
	Page 3 / 11	
	Page 24 of	

#### FG00730 - Semi-Moist Underglaze - Red

#### Revision date 01-Feb-2024

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. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust. Do not eat, drink or smoke when using this product.	
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**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Zircon, cadmium red	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 0.2 mg/m <sup>3</sup> Se	IDLH: 9 mg/m <sup>3</sup> Cd dust and
72828-62-7	TWA: 0.01 mg/m <sup>3</sup> Cd	TWA: 5 mg/m³ Zr	fume
	TWA: 0.002 mg/m <sup>3</sup> Cd	(vacated) TWA: 0.2 mg/m <sup>3</sup> Se	IDLH: 1 mg/m <sup>3</sup> Se
	respirable particulate matter	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 25 mg/m <sup>3</sup> Zr
	TWA: 0.2 mg/m <sup>3</sup> Se	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	TWA: 0.2 mg/m <sup>3</sup> except
	TWA: 5 mg/m <sup>3</sup> Zr		Selenium hexafluoride Se
			TWA: 5 mg/m <sup>3</sup> except Zirconium
			tetrachloride Zr
			STEL: 10 mg/m <sup>3</sup> Zr
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	TWA: 50 μg/m³	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
		TWA respirable fraction	
Kaolin	TWA: 2 mg/m <sup>3</sup> particulate	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
Erite ekersisele		respirable fraction	
Frits, chemicals	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 10 $\mu$ g/m <sup>3</sup> As	IDLH: 5 mg/m <sup>3</sup> As
65997-18-4	TWA: 0.01 mg/m³ As TWA: 0.05 mg/m³ Pb	TWA: 50 µg/m³ Pb TWA: 0.5 mg/m³ Sb	IDLH: 9 mg/m <sup>3</sup> Cd dust and fume
	TWA: 0.05 mg/m <sup>3</sup> PD TWA: 0.01 mg/m <sup>3</sup> Cd	TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 50 mg/m <sup>3</sup> Sb
	TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 100 mg/m <sup>3</sup> Cu dust and
	respirable particulate matter	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb (vacated) TWA: 5 mg/m <sup>3</sup> Zr	mist
	TWA: 0.5 mg/m <sup>3</sup> Sb	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 500 mg/m <sup>3</sup> Mn
	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	(vacated) STEE. To mg/m <sup>2</sup> Zi (vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> Zr
	TWA: 3 mg/m <sup>3</sup> W respirable	Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 100 mg/m <sup>3</sup> Pb
L			

Page 4/11

### FG00730 - Semi-Moist Underglaze - Red

#### Revision date 01-Feb-2024

	particulate matter in the absence		IDLH: 10 mg/m <sup>3</sup> Ni
	of cobalt		Ceiling: 0.002 mg/m <sup>3</sup> As 15 min
	TWA: 5 mg/m <sup>3</sup> Zr		Ceiling: 0.05 mg/m <sup>3</sup> V dust and
	TWA: 0.02 mg/m <sup>3</sup> Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m <sup>3</sup> Sb
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable		TWA: 1 mg/m <sup>3</sup> Cu dust and
	particulate matter		mist
			TWA: 1 mg/m <sup>3</sup> Mn
			TWA: 5 mg/m <sup>3</sup> except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m <sup>3</sup> Pb
			TWA: 0.015 mg/m <sup>3</sup> except
			Nickel carbonyl Ni
			STEL: 3 mg/m <sup>3</sup> Mn
			STEL: 10 mg/m <sup>3</sup> Zr
1,2,3-Propanetriol	-	TWA: 15 mg/m <sup>3</sup> mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	
C.I. Pigment Blue 73	TWA: 0.02 mg/m <sup>3</sup> Co inhalable	-	-
68187-40-6	particulate matter		

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

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	No special protective equipment required.		
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. Avoid breathing dust/fume/gas/mist/vapors/spray.		

## 9. Physical and chemical properties

Information on basic physical and c Physical state Appearance Color Odor Odor threshold	<u>hemical properties</u> Solid		
<u>Property</u> pH Melting point / freezing point	<u>Values</u> No data available No data available	Remarks • Method None known None known	
Initial boiling point and boiling rang Flash point Evaporation rate Flammability Flammability Limit in Air	eNo data available No data available No data available No data available	None known None known None known None known	
Upper flammability or explosive limits Lower flammability or explosive limits	No data available No data available		
Vapor pressure Relative vapor density Relative density Water solubility	No data available No data available No data available No data available	None known None known None known None known	
Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature	No data available No data available No data available	None known None known None known None known	
Kinematic viscosity Dynamic viscosity	No data available No data available	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	s 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 be harmful in contact with skin.

Page 6/11

Item Numbers: 30415-1019

#### Revision date 01-Feb-2024

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

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

Symptoms

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)	302.20 mg/kg
ATEmix (dermal)	3,446.60 mg/kg
ATEmix (inhalation-dust/mist)	4.43 mg/l

#### Unknown acute toxicity

171.67 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

177.76 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Kaolin	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1332-58-7			
Frits, chemicals	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
65997-18-4			
1,2,3-Propanetriol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat)4 h
56-81-5			
C.I. Pigment Blue 73	-	-	= 5.3 mg/L (Rat) 4 h
68187-40-6			> 5.3 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 No information available. No information available.

Germ cell mutagenicity

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.

	The table below maleated method agency had noted any ingreatent as a carentegen.					
Chemical name	ACGIH	IARC	NTP	OSHA		
Zircon, cadmium red 72828-62-7	A2	Group 1 Group 3	Known	Х		
Quartz 14808-60-7	A2	Group 1	Known	Х		
Frits, chemicals	A1	Group 1	Known	Х		
65997-18-4	A3	Group 2B	Reasonably Anticipated			
	A2	Group 2A				
C.I. Pigment Blue 73 68187-40-6	A3	Group 2B	Reasonably Anticipated	Х		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

Revision date 01-Feb-2024

#### Revision date 01-Feb-2024

· ·	to Humans to Humans to Humans arcinogenicity in Humans
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
1,2,3-Propanetriol 56-81-5	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-

#### 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**

Page 8/11

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**—** .

FG00730 - Semi-Moist Undergla	aze - Red	Revision date	01-Feb-2024
Waste from residues/unused products	Dispose of waste in accordance with environmental legisla with local regulations.	ation. Dispose of in	accordance
Contaminated packaging	Do not reuse empty containers.		
California Hazardous Waste Status	This product contains one or more substances that are list a hazardous waste.	ed with the State o	of California as

# 14. Transport information

DOT

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Not regulated

#### 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
Corn syrup	8029-43-4	Present	Active
Zircon, cadmium red	72828-62-7	Present	Active
Water	7732-18-5	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
Quartz	14808-60-7	Present	Active
Dextrin	9004-53-9	Present	Active
Kaolin	1332-58-7	Present	Active
Frits, chemicals	65997-18-4	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
C.I. Pigment Blue 73	68187-40-6	Present	Active
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	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 EINECS/ELINCS ENCS IECSC KECL PICCS AIIC	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

9/11 Page

#### Revision date 01-Feb-2024

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
C.I. Pigment Blue 73 - 68187-40-6	0.1

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

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

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zircon, cadmium red 72828-62-7	-	Х	-	-
Frits, chemicals 65997-18-4	-	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
Zircon, cadmium red 72828-62-7	X	-	Х
Water 7732-18-5	-	-	Х
Quartz 14808-60-7	X	Х	Х
Kaolin 1332-58-7	X	Х	Х
Frits, chemicals 65997-18-4	X	-	Х
1,2,3-Propanetriol 56-81-5	X	Х	Х
C.I. Pigment Blue 73 68187-40-6	X	-	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA Health haz HMIS Health haz Chronic Hazard Star Legend	ards 2 *	Flammability Flammability Health Hazard		Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend to abbreviations andLegend Section 8: Exposure controTWATWA (time-weightCeilingMaximum limit val	ols/personal ed average)	protection	<b>ety data sł</b> STEL *		m Exposure Limit)
Key literature references and source Agency for Toxic Substances and Dis U.S. Environmental Protection Agency European Food Safety Authority (EFS EPA (Environmental Protection Agency Acute Exposure Guideline Level(s) (A U.S. Environmental Protection Agency U.S. Environmental Protection Agency Food Research Journal Hazardous Substance Database International Uniform Chemical Inform National Institute of Technology and E Australia National Industrial Chemical: NIOSH (National Institute for Occupat National Library of Medicine's ChemIE National Library of Medicine's PubMer National Toxicology Program (NTP) New Zealand's Chemical Classificatio Organization for Economic Co-operati Organization for Economic Co-operati World Health Organization	ease Registr ( ChemView A) (y) EGL(s)) ( Federal Ins ( High Produ ation Databa (valuation (N s Notification ional Safety ) Plus (NLM d database ( n and Inform on and Deve on and Deve	y (ATSDR) Database ecticide, Fungio ction Volume C ase (IUCLID) ITE) and Assessme and Health) CIP) NLM PUBMED) ation Database elopment Enviro	cide, and Ro hemicals ent Scheme (CCID) nment, Hea Production V	odenticide Act (NICNAS) alth, and Safety Publicatio /olume Chemicals Progra	
Revision date Revision Note <u>Disclaimer</u> The information provided in this Sa date of its publication. The informat transportation, disposal and releas relates only to the specific material materials or in any process, unless	tion given is e and is not designated specified ir	neet is correct designed onl to be conside and may not b	y as a guic red a warra be valid for	lance for safe handling, anty or quality specifica such material used in c	use, processing, storage, tion. The information

End of Safety Data Sheet

Item Numbers: 30415-1019

Page 11/11

Revision date 01-Feb-2024

**Revision Number** 1

# SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision date 01-Feb-2024

1. Identification				
Product identifier				
Product Name	Semi-Moist Underglaze - Light Red			
Other means of identification				
Product Code(s)	FG00720			
Synonyms	41426K, 01305P			
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
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC) Not applicable

Label elements

Hazard statements Danger

Page 1/11



Physical state Solid 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 Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response IF exposed or concerned: Get medical advice/attention 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

174.1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### 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.

#### Mixture

Chemical name	CAS No	Weight-%
Zircon, cadmium orange	99749-34-5	10 - 20
Quartz	14808-60-7	10 - 20
Zircon, cadmium red	72828-62-7	5 - <10
Kaolin	1332-58-7	5 - <10
Frits, chemicals	65997-18-4	5 - <10
Zircon	14940-68-2	3 - <5
1,2,3-Propanetriol	56-81-5	1 - <3

#### 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

Page 2/11

#### Revision date 01-Feb-2024

FG00720 - Semi-Moist Undergl	aze - Light Red	Revision date 01-Feb-2024	
	medical advice/attention.		
Inhalation	Remove to fresh air.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyeli Consult a physician.		
Skin contact	Wash skin with soap and water.		
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	No information available.		
Indication of any immediate medica	al attention and special treatment needed		
Note to physicians	Treat symptomatically.		
5. Fire-fighting measures			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to	o local circumstances and the	
Large Fire	surrounding environment. CAUTION: Use of water spray when fighting fire m	nay be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure v	water streams.	
Specific hazards arising from the chemical	No information available.		
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 Use personal protection equipment.		
6. Accidental release meas	sures		
Personal precautions, protective e	uipment and emergency procedures		
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.		
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

Page 3/11

FG00720 - Semi-Moist Uno	derglaze - Light Red	Revision date 01-Feb-2024
Advice on safe handling	Handle in accordance with good industrial hygiene skin, eyes or clothing. Ensure adequate ventilation.	
Conditions for safe storage, in	ncluding any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and we of children.	Il-ventilated place. Keep out of the reach

# 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Zircon, cadmium orange	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 9 mg/m <sup>3</sup> Cd dust and
99749-34-5	TWA: 0.01 mg/m <sup>3</sup> Cd	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	fume
337 43 04 0	TWA: 0.002 mg/m <sup>3</sup> Cd	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 25 mg/m <sup>3</sup> Zr
	respirable particulate matter	(Tabatod) 01221 To mg/m 21	TWA: 5 mg/m <sup>3</sup> except Zirconium
	TWA: 5 mg/m <sup>3</sup> Zr		tetrachloride Zr
	5		STEL: 10 mg/m <sup>3</sup> Zr
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	TWA: 50 μg/m³	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
		TWA respirable fraction	
Zircon, cadmium red	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 0.2 mg/m <sup>3</sup> Se	IDLH: 9 mg/m <sup>3</sup> Cd dust and
72828-62-7	TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd	TWA: 5 mg/m <sup>3</sup> Zr (vacated) TWA: 0.2 mg/m <sup>3</sup> Se	fume IDLH: 1 mg/m³ Se
	respirable particulate matter	(vacated) TWA: 0.2 mg/m <sup>3</sup> Se (vacated) TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 25 mg/m <sup>3</sup> Zr
	TWA: 0.2 mg/m <sup>3</sup> Se	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	TWA: 0.2 mg/m <sup>3</sup> except
	TWA: 5 mg/m <sup>3</sup> Zr		Selenium hexafluoride Se
	· · · · · · · · · · · · · · · · · · ·		TWA: 5 mg/m <sup>3</sup> except Zirconium
			tetrachloride Zr
			STEL: 10 mg/m <sup>3</sup> Zr
Kaolin	TWA: 2 mg/m <sup>3</sup> particulate	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
Frits, chemicals	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 10 µg/m <sup>3</sup> As	IDLH: 5 mg/m <sup>3</sup> As
65997-18-4	TWA: 0.01 mg/m <sup>3</sup> As	TWA: 10 µg/m³ As TWA: 50 µg/m³ Pb	IDLH: 9 mg/m <sup>3</sup> Cd dust and
00007 10 4	TWA: 0.05 mg/m <sup>3</sup> Pb	TWA: 0.5 mg/m <sup>3</sup> Sb	fume
	TWA: 0.01 mg/m <sup>3</sup> Cd	TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 50 mg/m <sup>3</sup> Sb
	TWA: 0.002 mg/m <sup>3</sup> Cd	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 100 mg/m <sup>3</sup> Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	mist
	TWA: 0.5 mg/m <sup>3</sup> Sb	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 500 mg/m <sup>3</sup> Mn
	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> Zr
	TWA: 3 mg/m <sup>3</sup> W respirable	Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 100 mg/m <sup>3</sup> Pb
	particulate matter in the absence		IDLH: 10 mg/m <sup>3</sup> Ni
	of cobalt		Ceiling: 0.002 mg/m <sup>3</sup> As 15 min
	TWA: 5 mg/m <sup>3</sup> Zr		Ceiling: 0.05 mg/m <sup>3</sup> V dust and
	TWA: 0.02 mg/m <sup>3</sup> Mn respirable particulate matter		fume 15 min TWA: 0.5 mg/m³ Sb
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable		TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 1 mg/m <sup>3</sup> Cu dust and
	particulate matter		mist
			11100

Page 4/11

Page 46 of 85

#### Revision date 01-Feb-2024

			TWA: 1 mg/m <sup>3</sup> Mn
			TWA: 5 mg/m <sup>3</sup> except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m <sup>3</sup> Pb
			TWA: 0.015 mg/m <sup>3</sup> except
			Nickel carbonyl Ni
			STEL: 3 mg/m <sup>3</sup> Mn
			STEL: 10 mg/m <sup>3</sup> Zr
Zircon	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 25 mg/m <sup>3</sup> Zr
14940-68-2	TWA: 5 mg/m <sup>3</sup> Zr	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	TWA: 5 mg/m <sup>3</sup> except Zirconium
	-	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	tetrachloride Zr
			STEL: 10 mg/m <sup>3</sup> Zr
1,2,3-Propanetriol	-	TWA: 15 mg/m <sup>3</sup> mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	

#### **Biological occupational exposure limits**

Chemical name	ACGIH
	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
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

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Hand protection	Wear suitable gloves.
Skin and body protection Respiratory 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 Solid
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	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			

10.	Stability	anu	reactivit

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

# 11. Toxicological information

Information on likely routes of exposure

Product Information		
Inhalation	Specific test data for the substance or mixture is not available.	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	May 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	No information available.	
Page 6/11		

Item Numbers: 30415-1019

#### Revision date 01-Feb-2024

Page 48 of 85

#### 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) ATEmix (dermal)

637.30 mg/kg 4,236.50 mg/kg ATEmix (inhalation-dust/mist) 5.39 mg/l

#### Unknown acute toxicity

174.1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 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

#### 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	No information available.
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
Zircon, cadmium orange 99749-34-5	A2	Group 1	Known	Х
Quartz 14808-60-7	A2	Group 1	Known	Х
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	×

#### 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)

#### Revision date 01-Feb-2024

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)		-

#### 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 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.	

Page 8/11

#### 14. Transport information

DOT

Not regulated

#### 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
Corn syrup	8029-43-4	Present	Active
Water	7732-18-5	Present	Active
Zircon, cadmium orange	99749-34-5	-	Unknown *
Nepheline syenite	37244-96-5	-	Unknown *
Quartz	14808-60-7	Present	Active
Dextrin	9004-53-9	Present	Active
Zircon, cadmium red	72828-62-7	Present	Active
Kaolin	1332-58-7	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Zircon	14940-68-2	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	Present	Active

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

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

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

 KECL
 - Korean Existing and Evaluated Chemical Substances

 PICCS
 - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

Page 9/11

#### Revision date 01-Feb-2024

#### Revision date 01-Feb-2024

#### 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 orange - 99749-34-5	0.1
Zircon, cadmium red - 72828-62-7	0.1
	1.0
Frits, chemicals - 65997-18-4	0.1
	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
Zircon, cadmium orange 99749-34-5	-	Х	-	-
Zircon, cadmium red 72828-62-7	-	Х	-	-
Frits, chemicals 65997-18-4	-	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
Zircon, cadmium orange 99749-34-5	Х	-	X
Quartz 14808-60-7	Х	X	X
Zircon, cadmium red 72828-62-7	Х	-	Х
Kaolin 1332-58-7	Х	X	Х
Frits, chemicals 65997-18-4	Х	-	X
1,2,3-Propanetriol 56-81-5	Х	X	X

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### 16. Other information

Page 10/11

FG00720 - Semi-Moist Underglaze - Light Red		R	Revision date 01-Feb-2024	
NFPA HMIS Chronic Hazard St	Health hazards 2 Health hazards * 2 ar Legend *= Chronic	Flammability 0 Flammability 0 Health Hazard	Instability 0 Physical hazards 0	Special hazards - Personal protection X
	o abbreviations and acronyms u		sheet	
	n 8: Exposure controls/persona			
TWA	TWA (time-weighted average)			erm Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation	on
Agency for Toxic U.S. Environmer European Food S EPA (Environmer Acute Exposure U.S. Environmer Food Research & Hazardous Subs International Uni National Institute Australia National NIOSH (National National Library National Library National Toxicold New Zealand's C Organization for Organization for	tance Database form Chemical Information Databa of Technology and Evaluation (N al Industrial Chemicals Notification Institute for Occupational Safety of Medicine's ChemID Plus (NLM of Medicine's PubMed database ( pgy Program (NTP) chemical Classification and Inform Economic Co-operation and Deve Economic Co-operation and Deve Economic Co-operation and Deve	ry (ATSDR) Database secticide, Fungicide, and action Volume Chemicals ase (IUCLID) IITE) n and Assessment Scher and Health) CIP) NLM PUBMED) nation Database (CCID) elopment Environment, H	Rodenticide Act ne (NICNAS) Health, and Safety Publica n Volume Chemicals Prog	
	01-Feb-203 provided in this Safety Data SI cation. The information given is	heet is correct to the be		

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

Item Numbers: 30415-1019

Page 11/11

**Revision Number** 1

# SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision date 01-Feb-2024

1. Identification		
Product identifier		
Product Name	Semi-Moist Underglazes - Salmon	
Other means of identification		
Product Code(s)	FG00732	
Synonyms	41432S, 01381L	
Recommended use of the chemica	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
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Hazard statements Warning

Page 1/11

# H302 - Harmful if swallowed H373 - May cause damage to organs through prolonged or repeated exposure

#### Physical state Solid

**Precautionary Statements - Prevention** 

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray

#### Precautionary Statements - Response

Get medical advice/attention if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

199.13 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### Other information

Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

#### 3. Composition/information on ingredients

#### Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%
C.I. Pigment Red 235	68201-65-0	20 - 40
Frits, chemicals	65997-18-4	5 - <10
Quartz	14808-60-7	3 - <5
Kaolin	1332-58-7	3 - <5
Zircon	14940-68-2	3 - <5
1,2,3-Propanetriol	56-81-5	1 - <3

#### 4. First-aid measures

#### Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.

Page 2/11

# Revision date 01-Feb-2024

FG00732 - Semi-Moist Undergl	azes - Salmon Revision date 01-Feb-2024
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	No information available.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	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	No information available.
Explosion data Sensitivity to mechanical impac	ct 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 meas	sures
Personal precautions, protective e	quipment and emergency procedures
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.
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. Ensure adequate ventilation.		
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.		

Page 3 / 11

Item Numbers: 30415-1019

# 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
C.I. Pigment Red 235	-	TWA: 0.5 mg/m <sup>3</sup> Cr	IDLH: 25 mg/m <sup>3</sup> Cr(III)
68201-65-0		(vacated) TWA: 0.5 mg/m <sup>3</sup> Cr	TWA: 0.5 mg/m <sup>3</sup> Cr
Frits, chemicals 65997-18-4	STEL: 10 mg/m <sup>3</sup> Zr TWA: 0.01 mg/m <sup>3</sup> As TWA: 0.05 mg/m <sup>3</sup> Pb TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd respirable particulate matter TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 3 mg/m <sup>3</sup> W respirable particulate matter in the absence of cobalt TWA: 5 mg/m <sup>3</sup> Zr TWA: 0.02 mg/m <sup>3</sup> Mn respirable particulate matter TWA: 0.1 mg/m <sup>3</sup> Mn inhalable particulate matter	TWA: 10 μg/m <sup>3</sup> Ås TWA: 50 μg/m <sup>3</sup> Pb TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 5 mg/m <sup>3</sup> Zr (vacated) TWA: 0.5 mg/m <sup>3</sup> Sb (vacated) TWA: 5 mg/m <sup>3</sup> Zr (vacated) STEL: 10 mg/m <sup>3</sup> Zr (vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 5 mg/m <sup>3</sup> As IDLH: 9 mg/m <sup>3</sup> Cd dust and fume IDLH: 50 mg/m <sup>3</sup> Cu dust and mist IDLH: 100 mg/m <sup>3</sup> Cu dust and mist IDLH: 500 mg/m <sup>3</sup> Mn IDLH: 25 mg/m <sup>3</sup> Zr IDLH: 100 mg/m <sup>3</sup> Ni Ceiling: 0.002 mg/m <sup>3</sup> As 15 min Ceiling: 0.05 mg/m <sup>3</sup> V dust and fume 15 min TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Mn TWA: 5 mg/m <sup>3</sup> except Zirconium tetrachloride Zr TWA: 0.050 mg/m <sup>3</sup> Pb TWA: 0.015 mg/m <sup>3</sup> except Nickel carbonyl Ni
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	TWA: 50 µg/m <sup>3</sup> (vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction	STEL: 3 mg/m <sup>3</sup> Mn STEL: 10 mg/m <sup>3</sup> Zr IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Zircon 14940-68-2	STEL: 10 mg/m³ Zr TWA: 5 mg/m³ Zr	TWA: 5 mg/m³ Zr (vacated) TWA: 5 mg/m³ Zr (vacated) STEL: 10 mg/m³ Zr	IDLH: 25 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> except Zirconium tetrachloride Zr STEL: 10 mg/m <sup>3</sup> Zr
1,2,3-Propanetriol 56-81-5	-	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-

**Biological occupational exposure limits** 

Revision date 01-Feb-2024

Page 57 of 85

#### Revision date 01-Feb-2024

Chemical name	A	ACGIH	
Frits, chemicals	2	200 µg/L - blood (Lead) - not critical	
65997-18-4	5	5 µg/g creatinine - urine (Cadmium) - not critical	
	5	5 µg/L - blood (Cadmium) - not critical	
Appropriate engineering controls			
Engineering controls	Showers		
	Eyewash stations		
	Ventilation systems.		
Individual protection measures, su	<u>ch as personal protective equipm</u>	<u>ient</u>	
Eye/face protection	No special protective equipment required.		
Chin and hady protection	No aposial protoctive equipment r	aquirad	
Skin and body protection	No special protective equipment required.		
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are		
Respiratory protection	exceeded or irritation is experienced, ventilation and evacuation may be required.		
	chocoded of initiation is experience	sed, ventilation and evacuation may be required.	
General hygiene considerations	Handle in accordance with good in	ndustrial hygiene and safety practice.	
contra nygione considerations	. landle in decendarioo with good i		

# 9. Physical and chemical properties

Information on basic physical and o Physical state Appearance Color Odor Odor threshold	<b>chemical properties</b> Solid	
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 limits Lower flammability or explosive limits	No data available 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 Oxidizing properties VOC Content (%)	No information available No information available No information available	

Page 5/11

#### Revision date 01-Feb-2024

10. Stability and reactivity		
Reactivity	No information available.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	None known based on information supplied.	
Incompatible materials	None known based on information supplied.	
Hazardous decomposition products	s None known based on information supplied.	

nazardous decomposition products none known based on mormation suppr

#### 11. Toxicological information

#### Information on likely routes of exposure

Product	Information
---------	-------------

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

No information available.

Acute toxicity

Numerical measures of toxicity No information available

The following values are ca	culated based on chapter 3.1 of the GHS document
ATEmix (oral)	1,823.30 mg/kg

ATEmix (dermal)	27,210.90 mg/kg
ATEmix (inhalation-dust/mist)	24.00 mg/l

Unknown acute toxicity

199.13 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### **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)	-
1,2,3-Propanetriol 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 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.

Page 6/11

Item Numbers: 30415-1019

Page 59 of 85

#### Revision date 01-Feb-2024

Respiratory or skin sensitization No information available.					
Germ cell mutagenicity	No informatio	n available.			
<b>Carcinogenicity</b> The table below indicates	No informatio whether each agency has		a carcinogen.		
Chemical name	ACGIH	IARC	NTP	OSHA	
C.I. Pigment Red 235 68201-65-0	-	Group 3	-	-	
Frits, chemicals 65997-18-4	A1 A3 A2	Group 1 Group 2B Group 2A	Known Reasonably Anticipated	X	
Quartz 14808-60-7	A2	Group 1	Known	Х	
Group 1 - Carcinogenia Group 2A - Probably C Group 2B - Possibly C Group 3 - Not Classifia <b>NTP (National Toxico</b> Known - Known Carcir Reasonably Anticipate <b>OSHA (Occupational</b> X - Present	n <b>gency for Research on C</b> c to Humans carcinogenic to Humans arcinogenic to Humans ble as to Carcinogenicity i <b>logy Program)</b>	n Humans d to be a Human Carcino histration of the US Dep			
Reproductive toxicity					
STOT - single exposure	No informatio	No information available.			
STOT - repeated exposu	re May cause da	May cause damage to organs through prolonged or repeated exposure.			
Target organ effects	Vascular Sys	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 informatio	No information available.			
Other adverse effects					
Interactive effects					
12. Ecological info	rmation				
Ecotoxicity		tic life. Harmful to aquation	c life with long lasting effects		
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea	
Page 7/11					

Item Numbers: 30415-1019

Page 60 of 85

#### Revision date 01-Feb-2024

			microorganisms	
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	-	-
56-81-5		Oncorhynchus mykiss)		

#### 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 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

# 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
Corn syrup	8029-43-4	Present	Active
C.I. Pigment Red 235	68201-65-0	Present	Active
Water	7732-18-5	Present	Active
Dextrin	9004-53-9	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Quartz	14808-60-7	Present	Active
Feldspar	68476-25-5	Present	Active
Kaolin	1332-58-7	Present	Active

#### Revision date 01-Feb-2024

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active
			designation
Zircon	14940-68-2	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	Present	Active

DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS	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 %
C.I. Pigment Red 235 - 68201-65-0	1.0
Frits, chemicals - 65997-18-4	0.1
	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
C.I. Pigment Red 235 68201-65-0	-	Х	-	-
Frits, chemicals 65997-18-4	-	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

#### Revision date 01-Feb-2024

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
C.I. Pigment Red 235 68201-65-0	Х	-	Х
Water 7732-18-5	-	-	Х
Frits, chemicals 65997-18-4	Х	-	Х
Quartz 14808-60-7	Х	X	Х
Feldspar 68476-25-5	Х	-	Х
Kaolin 1332-58-7	Х	X	Х
1,2,3-Propanetriol 56-81-5	Х	Х	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other info	rmation				
NFPA HMIS	Health hazards 1 Health hazards * 2	Flammability 0 Flammability 0	Instabilit <u>y</u> Physical	y 0 hazards 0	Special hazards - Personal protection X
Legend Section 8 TWA Ceiling Key literature refer Agency for Toxic Su	bbreviations and acronyms Exposure controls/persona TWA (time-weighted average) Maximum limit value rences and sources for data ubstances and Disease Regist	used to compile the	- ST Ski	EL (Short Ter	m Exposure Limit)
European Food Saf EPA (Environmenta Acute Exposure Gu U.S. Environmental U.S. Environmental Food Research Jou		secticide, Fungicide,		Act	
National Institute of Australia National Ir NIOSH (National Ins National Library of N	nce Database n Chemical Information Datab Technology and Evaluation (N ndustrial Chemicals Notification stitute for Occupational Safety Medicine's ChemID Plus (NLM Medicine's PubMed database	NITE) n and Assessment So and Health) CIP)	heme (NICNAS)		
National Toxicology New Zealand's Che Organization for Eco Organization for Eco	Program (NTP) mical Classification and Inforn onomic Co-operation and Dev onomic Co-operation and Dev onomic Co-operation and Dev	nation Database (CC elopment Environme elopment High Produ	nt, Health, and Sa ction Volume Che	micals Progra	
	01-Feb-20 rovided in this Safety Data S tion. The information given i	heet is correct to th			

Revision date 01-Feb-2024

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

Revision Number 1

# SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision date 01-Feb-2024

1. Identification		
Product identifier		
Product Name	Semi-Moist Underglaze - Orange	
Other means of identification		
Product Code(s)	FG00742	
Synonyms	41421S, 01691J	
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		
Specific target organ toxicity (repeated	d exposure) Category 2	
Hazards not otherwise classified (H Not applicable	INOC)	
Label elements		
<u>Hazard statements</u> Warning		
H373 - May cause damage to organs through prolonged or repeated exposure		

Page 1/10

Page 65 of 85

#### Revision date 01-Feb-2024



Physical state Solid Precautionary Statements - Prevention Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

May be harmful if swallowed. Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

### 3. Composition/information on ingredients

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%
C.I. Pigment Brown 33	68186-88-9	40 - 60
Quartz	14808-60-7	3 - <5
Kaolin	1332-58-7	3 - <5
Frits, chemicals	65997-18-4	3 - <5
1,2,3-Propanetriol	56-81-5	1 - <3

4. First-aid measures		
Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
	Page 2/10	

Item Numbers: 30415-1019

Page 66 of 85

#### Revision date 01-Feb-2024

Page 67 of 85

5 Fire fighting measures		
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	No information available.	
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.	
precautions for fire-fighters	Use personal protection equipment.	
6. Accidental release meas	· · · · · ·	
6. Accidental release meas	· · · · · ·	
6. Accidental release meas	sures	
6. Accidental release meas Personal precautions, protective ed	sures quipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment as required. Evacuate	
6. Accidental release meas Personal precautions, protective ed Personal precautions	Sures guipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Refer to protective measures listed in Sections 7 and 8.	
6. Accidental release meas Personal precautions, protective ed Personal precautions Other information	Sures guipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Refer to protective measures listed in Sections 7 and 8.	

7. Handling and storage		
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.	

# 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
C.I. Pigment Brown 33	-	TWA: 0.5 mg/m <sup>3</sup> Cr	IDLH: 25 mg/m <sup>3</sup> Cr(III)
68186-88-9		(vacated) TWA: 0.5 mg/m <sup>3</sup> Cr	TWA: 0.5 mg/m <sup>3</sup> Cr

Page 3/10

#### Revision date 01-Feb-2024

	1		
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	TWA: 50 µg/m³	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
		TWA respirable fraction	
Kaolin	TWA: 2 mg/m <sup>3</sup> particulate	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 10 mg/m <sup>3</sup> total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
	and <1% crystalline silica,	fraction	-
	respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup> total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Frits, chemicals	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 10 µg/m <sup>3</sup> As	IDLH: 5 mg/m <sup>3</sup> As
65997-18-4	TWA: 0.01 mg/m <sup>3</sup> As	TWA: 50 µg/m <sup>3</sup> Pb	IDLH: 9 mg/m <sup>3</sup> Cd dust and
	TWA: 0.05 mg/m <sup>3</sup> Pb	TWA: 0.5 mg/m <sup>3</sup> Sb	fume
	TWA: 0.01 mg/m <sup>3</sup> Cd	TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 50 mg/m <sup>3</sup> Sb
	TWA: 0.002 mg/m <sup>3</sup> Cd	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 100 mg/m <sup>3</sup> Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	mist
	TWA: 0.5 mg/m <sup>3</sup> Sb	(vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 500 mg/m <sup>3</sup> Mn
	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> Zr
	TWA: 3 mg/m <sup>3</sup> W respirable	Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 100 mg/m <sup>3</sup> Pb
	particulate matter in the absence		IDLH: 10 mg/m <sup>3</sup> Ni
	of cobalt		Ceiling: 0.002 mg/m <sup>3</sup> As 15 min
	TWA: 5 mg/m <sup>3</sup> Zr		Ceiling: 0.05 mg/m <sup>3</sup> V dust and
	TWA: 0.02 mg/m <sup>3</sup> Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m <sup>3</sup> Sb
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable		TWA: 1 mg/m <sup>3</sup> Cu dust and
	particulate matter		mist
			TWA: 1 mg/m <sup>3</sup> Mn
			TWA: 5 mg/m <sup>3</sup> except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m <sup>3</sup> Pb
			TWA: 0.015 mg/m <sup>3</sup> except
			Nickel carbonyl Ni
			STEL: 3 mg/m <sup>3</sup> Mn
			STEL: 10 mg/m <sup>3</sup> Zr
1,2,3-Propanetriol	-	TWA: 15 mg/m <sup>3</sup> mist, total	
56-81-5		particulate	
		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		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

#### Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems.

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

Eye/face protection

Page 4 / 10

No special protective equipment required.

Skin and body protection	No special protective equipment required.
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	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Information on basic physical and on Physical and on Physical state	chemical properties Solid		
Appearance			
Color			
Odor Odor threshold			
ouor intesticiu			
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		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	NI 17 111	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Other information			
Explosive properties	No information available		
Oxidizing properties	No information available		
VOC Content (%)	No information available		
10. Stability and reactivity			
Reactivity	No information available.		
Chemical stability	Stable under normal conditions.		
Possibility of hazardous reactions	None under normal processing.		
Conditions to avoid	None known based on information supplied.		
Incompatible materials	None known based on information supplied.		
Hazardous decomposition products None known based on information supplied.			

Page 5 / 10

Revision date 01-Feb-2024

Page 69 of 85

#### Revision date 01-Feb-2024

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	May be harmful if swallowed.

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

Symptoms	No information available.

#### 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)
ATEmix	(dermal)
ATEmix	(inhalation-dust/mist)

2,269.30 mg/kg 30,769.20 mg/kg 29.00 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
C.I. Pigment Brown 33 68186-88-9	-	-	> 5.06 mg/L (Rat)4 h
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 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

#### 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	No information available.
Germ cell mutagenicity	No information available.

Carcinogenicity

#### No information available. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
C.I. Pigment Brown 33 68186-88-9	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	Х
Frits, chemicals 65997-18-4	A1 A3 A2	Group 1 Group 2B Group 2A	Known Reasonably Anticipated	Х

#### Revision date 01-Feb-2024

Legend         ACGIH (American Conference of Governmental Industrial Hygienists)         A1 - Known Human Carcinogen         A2 - Suspected Human Carcinogen         A3 - Animal Carcinogen         BARC (International Agency for Research on Cancer)         Group 1 - Carcinogenic to Humans         Group 2A - Probably 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

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	-	-
56-81-5		Oncorhynchus mykiss)		

#### Persistence and degradability

#### Bioaccumulation

Component Information
Chemical name Partition coefficient
1.2.3-Propagetrial -1.76

1,2,3-Propanetriol	-1.76
56-81-5	

Other adverse effects

No information available.

Page 7/10

Revision date 01-Feb-2024

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

# 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
Corn syrup	8029-43-4	Present	Active
C.I. Pigment Brown 33	68186-88-9	Present	Active
Water	7732-18-5	Present	Active
Dextrin	9004-53-9	Present	Active
Feldspar	68476-25-5	Present	Active
Kaolin	1332-58-7	Present	Active
Quartz	14808-60-7	Present	Active
Frits, chemicals	65997-18-4	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	Present	Active

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

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

# FG00742 - Semi-Moist Underglaze - Orange

# Revision date 01-Feb-2024

# **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 %
C.I. Pigment Brown 33 - 68186-88-9	1.0
Frits, chemicals - 65997-18-4	0.1
	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
C.I. Pigment Brown 33 68186-88-9	-	Х	-	-
Frits, chemicals 65997-18-4	-	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
C.I. Pigment Brown 33 68186-88-9	Х	-	Х
Water 7732-18-5	-	-	Х
Feldspar 68476-25-5	Х	-	Х
Kaolin 1332-58-7	Х	Х	Х
Quartz 14808-60-7	Х	Х	Х
Frits, chemicals 65997-18-4	Х	-	Х
1,2,3-Propanetriol 56-81-5	Х	Х	Х

# U.S. EPA Label Information

Page 9/10

# FG00742 - Semi-Moist Underglaze - Orange

Revision date 01-Feb-2024

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 1 Health hazards * 2 1	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards - Personal protection X
Legend Section 8: I TWA T Ceiling M Key literature refere Agency for Toxic Sub U.S. Environmental P European Food Safet EPA (Environmental I Acute Exposure Guid U.S. Environmental P U.S. Environmental P Food Research Journ Hazardous Substanci International Uniform National Institute of T Australia National Ind NIOSH (National Inst National Library of Me National Library of Me National Library of Me National Toxicology F New Zealand's Chem Organization for Ecor	Protection Agency) eline Level(s) (AEGL(s)) protection Agency Federal Inse protection Agency Federal Inse protection Agency High Product al e Database Chemical Information Databa echnology and Evaluation (NI lustrial Chemicals Notification itute for Occupational Safety a edicine's ChemID Plus (NLM ( edicine's PubMed database (N Program (NTP) ical Classification and Informa nomic Co-operation and Deve nomic Co-operation and Deve	protection seed to compile (ATSDR) Database ecticide, Fungici- tion Volume Ch se (IUCLID) TE) and Assessmer and Health) CIP) ILM PUBMED) ation Database ( lopment Environ lopment High Pr	the SDS de, and Ro emicals at Scheme (CCID) ment, Hea oduction V	STEL (Short T Skin designation edenticide Act (NICNAS)	tions
date of its publication transportation, disp relates only to the s	osal and release and is not	eet is correct to designed only to be considere and may not be	as a guida ed a warra e valid for	ance for safe handlin nty or quality specific such material used in	g, use, processing, storage,

**Revision Number** 1

# SAFETY DATA SHEET

AMACO EST. 1919 brent

Revision date 01-Feb-2024

1. Identification			
Product identifier			
Product Name	Semi-Moist Underglaze - Hunter Green		
Other means of identification			
Product Code(s)	FG00741		
Synonyms	41431R, 01378H		
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
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC) Not applicable

Label elements

Hazard statements Danger

Page 1/11

# H302 - Harmful if swallowed H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure

Physical state Solid 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 Do not breathe dust/fume/gas/mist/vapors/spray

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention 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

179.2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### Other information

Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

# 3. Composition/information on ingredients

Not applicable.

# Mixture

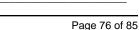
Chemical name	CAS No	Weight-%
C.I. Pigment Blue 36	68187-11-1	20 - 40
Quartz	14808-60-7	5 - <10
Frits, chemicals	65997-18-4	5 - <10
1306-06-5	Trade secret	5 - <10
Kaolin	1332-58-7	5 - <10
1,2,3-Propanetriol	56-81-5	1 - <3

# 4. First-aid measures

# **Description of first aid measures**

**General advice** 

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



Inhalation	Remove to fresh air.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash skin with soap and water.		
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.		
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	No information available.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	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.		

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 t Use personal protection equipment.

No information available.

Specific hazards arising from the

chemical

Personal precautions, protective equipment and emergency procedures			
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.		
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

Page 77 of 85

turnout gear.

Revision date 01-Feb-2024

FG00741 - Semi-Moist Underglaze - Hunter Green

Revision date 01-Feb-2024

 Advice on safe handling
 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

 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**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
C.I. Pigment Blue 36	TWA: 0.02 mg/m <sup>3</sup> Co inhalable	TWA: 0.5 mg/m <sup>3</sup> Cr	IDLH: 25 mg/m <sup>3</sup> Cr(III)
68187-11-1	particulate matter	(vacated) TWA: 0.5 mg/m <sup>3</sup> Cr	TWA: 0.5 mg/m <sup>3</sup> Cr
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	<ul> <li>TWA: 50 μg/m<sup>3</sup></li> <li>(vacated) TWA: 0.1 mg/m<sup>3</sup> respirable dust</li> <li>(250)/(%SiO2 + 5) mppcf TWA respirable fraction</li> <li>(10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction</li> </ul>	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Frits, chemicals 65997-18-4	STEL: 10 mg/m <sup>3</sup> Zr TWA: 0.01 mg/m <sup>3</sup> As TWA: 0.05 mg/m <sup>3</sup> Pb TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd respirable particulate matter TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 3 mg/m <sup>3</sup> W respirable particulate matter in the absence of cobalt TWA: 5 mg/m <sup>3</sup> Zr TWA: 0.02 mg/m <sup>3</sup> Mn respirable particulate matter TWA: 0.1 mg/m <sup>3</sup> Mn inhalable particulate matter	TWA: 10 μg/m³ As TWA: 50 μg/m³ Pb TWA: 0.5 mg/m³ Sb TWA: 5 mg/m³ Zr (vacated) TWA: 0.5 mg/m³ Sb (vacated) TWA: 5 mg/m³ Zr (vacated) STEL: 10 mg/m³ Zr (vacated) Ceiling: 5 mg/m³ Ceiling: 5 mg/m³ Mn	IDLH: 5 mg/m <sup>3</sup> As IDLH: 9 mg/m <sup>3</sup> Cd dust and fume IDLH: 50 mg/m <sup>3</sup> Sb IDLH: 100 mg/m <sup>3</sup> Cu dust and mist IDLH: 500 mg/m <sup>3</sup> Mn IDLH: 25 mg/m <sup>3</sup> Zr IDLH: 100 mg/m <sup>3</sup> Ni Ceiling: 0.002 mg/m <sup>3</sup> As 15 min Ceiling: 0.005 mg/m <sup>3</sup> V dust and fume 15 min TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 5 mg/m <sup>3</sup> except Zirconium tetrachloride Zr TWA: 0.050 mg/m <sup>3</sup> Pb TWA: 0.015 mg/m <sup>3</sup> except Nickel carbonyl Ni STEL: 3 mg/m <sup>3</sup> Zr
1306-06-5	-	TWA: 0.5 mg/m <sup>3</sup> Cr (vacated) TWA: 0.5 mg/m <sup>3</sup> Cr	IDLH: 25 mg/m <sup>3</sup> Cr(III) TWA: 0.5 mg/m <sup>3</sup> Cr
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
1,2,3-Propanetriol 56-81-5	-	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-

Page 4/11

# Revision date 01-Feb-2024

(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
total particulate	
(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
respirable fraction	

# **Biological occupational exposure limits**

Chemical name	ACGIH
C.I. Pigment Blue 36	15 μg/L - urine (Cobalt) - end of shift at end of workweek
68187-11-1	
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, suc	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
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 o Physical state Appearance Color Odor Odor threshold	<u>chemical properties</u> Solid	
Property	Values	Remarks • Method
Hq	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 limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known

Solubility(ies)	No data available	None known	
Partition coefficient	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature		None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Other information			
Explosive properties	No information available		
Oxidizing properties	No information available		
VOC Content (%)	No information available		
10. Stability and reactivity			
Reactivity	No information available.		
Chemical stability	Stable under normal conditions.		
Possibility of hazardous reactions	None under normal processing.		
Conditions to avoid	None known based on information supplied.		

Incompatible materialsNone known based on information supplied.Hazardous decomposition productsNone known based on information supplied.

# 11. Toxicological information

Information on likely routes of exposure

# Product Information

Product Information				
Inhalation	Specific test data for the substance or mixture is not available.			
Eye contact	Specific test data for the substance or mixture is not available.			
Skin contact	Specific test data for the substance or mixture is not available.			
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

No information available.

Acute toxicity

Acute toxicity

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)1,716.50 mg/kgATEmix (dermal)25,188.90 mg/kg

ATEMIX (dermal)	25,166.90 1
ATEmix (inhalation-dust/mist)	23.40 mg/l

# Unknown acute toxicity

179.2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
C.I. Pigment Blue 36	-	-	> 5.05 mg/L (Rat)4 h
68187-11-1			

Page 6/11

# Revision date 01-Feb-2024

-

Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
1306-06-5	> 5000 mg/kg (Rat)	-	> 5.41 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

# 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	No information available.

A2

-

Germ cell mutagenicity No information available.

Carcinogenicity

1306-06-5

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

-

		ingredients. N	/lay cause cancer.		
	The table below indicates	whether each agency has	s listed any ingredient as a	carcinogen.	
	Chemical name	ACGIH	IARC	NTP	OSHA
Ī	C.I. Pigment Blue 36	A3	Group 2B	Reasonably Anticipated	Х
	68187-11-1		Group 3		
Ī	Quartz	A2	Group 1	Known	Х
	14808-60-7				
Ī	Frits, chemicals	A1	Group 1	Known	Х
	65997-18-4	A3	Group 2B	Reasonably Anticipated	

Group 2A

Group 3

#### Legend

<ul> <li>ACGIH (American Conference of Governmental Industrial Hygienists)</li> <li>A1 - Known Human Carcinogen</li> <li>A2 - Suspected Human Carcinogen</li> <li>A3 - Animal Carcinogen</li> <li>IARC (International Agency for Research on Cancer)</li> <li>Group 1 - Carcinogenic to Humans</li> <li>Group 2A - Probably Carcinogenic to Humans</li> <li>Group 3 - Not Classifiable as to Carcinogenicity in Humans</li> <li>NTP (National Toxicology Program)</li> <li>Known - Known Carcinogen</li> <li>Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen</li> </ul>					
OSHA (Occupational Safety an	d Health Administration of the US Department of Labor)				
X - Present	X - Present				
Reproductive toxicity	No information available.				
STOT - single exposure	No information available.				
<b>STOT - repeated exposure</b> May cause damage to organs through prolonged or repeated exposure.					
	Page 7/11				

Item Numbers: 30415-1019

# Revision date 01-Feb-2024

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

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1306-06-5	-	LC50: >10000mg/L (96h, Danio rerio)	-	-
1,2,3-Propanetriol 56-81-5	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-

# 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 consideration	S
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	

# 14. Transport information

DOT

Not regulated

Item Numbers: 30415-1019

# 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
Corn syrup	8029-43-4	Present	Active
C.I. Pigment Blue 36	68187-11-1	Present	Active
Water	7732-18-5	Present	Active
Dextrin	9004-53-9	Present	Active
Feldspar	68476-25-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
1306-06-5	-	Present	Active
Quartz	14808-60-7	Present	Active
Kaolin	1332-58-7	Present	Active
1,2,3-Propanetriol	56-81-5	Present	Active
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	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 %
C.I. Pigment Blue 36 - 68187-11-1	0.1
	1.0
Frits, chemicals - 65997-18-4	0.1
	1.0
1306-06-5 -	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
C.I. Pigment Blue 36 68187-11-1	-	Х	-	-
Frits, chemicals 65997-18-4	-	Х	-	-
1306-06-5	-	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
C.I. Pigment Blue 36 68187-11-1	X	-	Х
Water 7732-18-5	-	-	Х
Feldspar 68476-25-5	Х	-	Х
Frits, chemicals 65997-18-4	Х	-	Х
1306-06-5	Х	X	Х
Quartz 14808-60-7	Х	X	Х
Kaolin 1332-58-7	Х	X	Х
1,2,3-Propanetriol 56-81-5	Х	X	Х

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other	information			
NFPA HMIS Chronic Hazard	Health hazards 1 Health hazards * 2 Star Legend *= Chronic F	Flammability 0 Flammability 0 Health Hazard	Instability 0 Physical hazards 0	Special hazards - Personal protection X
	d to abbreviations and acronyms u ion 8: Exposure controls/personal TWA (time-weighted average) Maximum limit value			n Exposure Limit)
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				
Page 10 / 11				

Revision date 01-Feb-2024

	ection Agency) Level(s) (AEGL(s)) ction Agency Federal Insecticide, Fungicide, and Rodenticide Act ction Agency High Production Volume Chemicals	
International Uniform Chen	mical Information Database (IUCLID)	
National Institute of Techno	ology and Evaluation (NITE)	
Australia National Industria	al Chemicals Notification and Assessment Scheme (NICNAS)	
NIOSH (National Institute f	for Occupational Safety and Health)	
National Library of Medicin	ne's ChemID Plus (NLM CIP)	
National Library of Medicin	ne's PubMed database (NLM PUBMED)	
National Toxicology Progra	am (NTP)	
New Zealand's Chemical C	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	1	
Revision date	01-Feb-2024	
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

Item Numbers: 30415-1019