# SAFETY DATA SHEET



**Revision Number** 2

#### Revision date 13-Sep-2022

1. Identification	
Product identifier	
Product Name	V-392 Blood Orange
Other means of identification	
Product Code(s)	FG00019
Synonyms	None
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
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

#### Hazard statements Warning

warning

H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H332 - Harmful if inhaled

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



#### Physical state Liquid

**Precautionary Statements - Prevention** Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/clothing and eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray

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

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

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

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

1.2444 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

4.9244 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

38.8844 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

38.8844 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

10.9244 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Other information

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

#### 3. Composition/information on ingredients

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%
Zircon, cadmium orange	99749-34-5	20 - 40
Frits, chemicals	65997-18-4	5 - <10
Kaolin	1332-58-7	5 - <10
Aluminum oxide (Al2O3)	1344-28-1	3 - <5
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0.1 - 1

### 4. First-aid measures

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

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.	
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

# 5. Fire-fighting measures

Suitable Extinguishing Media 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	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impac	t None.	
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

#### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

#### 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Avoid breathing vapors or mists.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

#### 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Zircon, cadmium 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
	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		TWA: 5 mg/m <sup>3</sup> except Zirconium
	TWA: 5 mg/m <sup>3</sup> Zr		tetrachloride Zr
			STEL: 10 mg/m <sup>3</sup> Zr
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/m³ 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

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			Nickel carbonyl Ni
			STEL: 3 mg/m <sup>3</sup> Mn
			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>	
		respirable fraction	
Aluminum oxide (Al2O3)	TWA: 1 mg/m <sup>3</sup> respirable	TWA: 15 mg/m <sup>3</sup> total dust	-
1344-28-1	particulate matter	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	

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

Chemical name	ACGIH	
	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	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

#### 9. Physical and chemical properties

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

PropertyValuespHNo data availableMelting point / freezing pointNo data availableInitial boiling point and boiling rangeNo data availableFlash pointNo data available

Remarks • Method None known None known None known None known

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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	410	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
VOC Content (%)	No information available	

## 10. Stability and reactivity

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

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). 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, of	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.
Acute toxicity	
Numerical measures of toxicity	

No information available

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

ATEmix (oral)	833.80 mg/kg
ATEmix (dermal)	4,265.50 mg/kg
ATEmix (inhalation-dust/mist)	4.78 mg/l

#### Unknown acute toxicity

1.2444 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
4.9244 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
38.8844 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
38.8844 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
10.9244 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Frits, chemicals 65997-18-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Aluminum oxide (Al2O3) 1344-28-1	> 5000 mg/kg (Rat)	-	-
1,3,5-Triazine-1,3,5(2H,4H,6H)-t riethanol 4719-04-4	= 763 mg/kg (Rat)	> 4000 mg/kg (Rat)	= 0.4 mg/L (Rat)4 h = 0.338 mg/L (Rat)4 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.
Carainaganiaitu	Contains a known or augmented carringgen. Classification based on data subjected for

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	A2	Group 1	Known	Х
99749-34-5		·		
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)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Central Vascular System (CVS), Lungs, Nasal Cavities, Lymphatic System, prostate, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	
Interactive effects	

#### 12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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

#### Persistence and degradability

Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

# 13. Disposal considerations Disposal methods Waste from residues/unused products Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations. Contaminated packaging Do not reuse empty containers. California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

#### 14. Transport information

DOT

Not regulated

UN number or ID number	UN3082
Packing group	III

#### 15. Regulatory information

#### International Inventories

TSCA

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Zircon, cadmium orange	99749-34-5	-	Unknown *
Frits, chemicals	65997-18-4	Present	Active
Kaolin	1332-58-7	Present	Active
Aluminum oxide (Al2O3)	1344-28-1	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha	4719-04-4	Present	Active
nol			
Ethanolamine	141-43-5	Present	Active

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

	Contact supplier for inventory compliance status.
EINECS/ELINCS ENCS	Contact supplier for inventory compliance status.
IECSC	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

#### <u>SARA 313</u>

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
Frits, chemicals - 65997-18-4	0.1
	1.0
Aluminum oxide (Al2O3) - 1344-28-1	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	-	-
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	-	-	Х
Zircon, cadmium orange 99749-34-5	Х	-	Х
Frits, chemicals 65997-18-4	Х	-	Х
Kaolin 1332-58-7	Х	Х	Х
Aluminum oxide (Al2O3) 1344-28-1	Х	Х	Х
Ethanolamine 141-43-5	Х	Х	Х

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

16. Other	information			
<u>NFPA</u>	Health hazards 2 FI	ammability 0	Instability 0	Special hazards -
<u>HMIS</u> Chronic Hazaro		<b>ammability</b> 0 th Hazard	Physical hazards 0	Personal protection X
	d to abbreviations and acronyms used		sheet	
TWA	tion 8: Exposure controls/personal pro TWA (time-weighted average)	STEL	STEL (Short Torn	n Evineaura Limit)
Ceiling	Maximum limit value	siel *	STEL (Short Term Exposure Limit) Skin designation	
Agency for To U.S. Environr European Fo EPA (Environ	e references and sources for data used oxic Substances and Disease Registry (A mental Protection Agency ChemView Data od Safety Authority (EFSA) mental Protection Agency) ure Guideline Level(s) (AEGL(s))	TSDR)	S	

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

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

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**