# SAFETY DATA SHEET

AMACO EST. 1919 brent

**Revision Number** 2

Revision date 13-Sep-2022

1. Identification		
Product identifier		
Product Name	V-388 Radiant Red	
Other means of identification		
Product Code(s)	FG00009	
Synonyms	37505N, 37511W	
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
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

#### FG00009 - V-388 Radiant Red

#### Hazard statements Danger

Daliyei

H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure



#### Physical state Liquid Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray

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

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF SWALLOWED: Call a POISON CENTER or doctor/physician 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

8.453 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
9.453 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
33.323 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
33.323 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
13.363 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Other information

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

### 3. Composition/information on ingredients

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%
Zircon, cadmium red	72828-62-7	10 - 20
Kaolin	1332-58-7	3 - <5
Quartz	14808-60-7	3 - <5
Frits, chemicals	65997-18-4	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.		
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. Call a physician.		
Most important symptoms and effects, both acute and delayed			
Symptoms	Itching. Rashes. Hives.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.		
5. Fire-fighting measures			

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impac	t None.	
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

# 6. Accidental release measures

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

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

Methods and material for containment and cleaning up

Methods for cleaning up	Pick up and transfer to properly labe	led

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.	
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.

containers.

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/m <sup>3</sup> 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
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	
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	
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/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

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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
	late 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	0.02 mg/m³ 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

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

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

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	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 threshold		

Property<br/>pHValues<br/>No data availableMelting point / freezing pointNo data availableInitial boiling point and boiling rangeNo data availableNo data availableFlash pointNo data availableEvaporation rateNo data available

Remarks • Method None known None known None known None known 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		
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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 cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).	
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Itching. Rashes. Hives.	
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)	499.00 mg/kg
ATEmix (dermal)	5,693.10 mg/kg
ATEmix (inhalation-dust/mist)	6.51 mg/l

#### Unknown acute toxicity

8.453 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

9.453 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

33.323 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

33.323 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

13.363 % 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 65997-18-4	> 2000 mg/kg (Rat)	> 2000 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.

#### 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 red 72828-62-7	A2	Group 1 Group 3	Known	X
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

#### 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	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

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 red	72828-62-7	Present	Active
Kaolin	1332-58-7	Present	Active
Nepheline syenite	37244-96-5	-	Unknown *
Quartz	14808-60-7	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Smectite-group minerals	12199-37-0	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-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

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 %	
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 red 72828-62-7	-	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
Water 7732-18-5	-	-	Х
Zircon, cadmium red 72828-62-7	Х	-	X
Kaolin 1332-58-7	Х	X	X
Quartz 14808-60-7	Х	X	Х
Frits, chemicals 65997-18-4	Х	-	Х
Ethanolamine 141-43-5	Х	X	Х

U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

16. Other information						
NFPA HMIS Chronic Hazard Sta	Health hazards 2 Health hazards 2 * r Legend *= Chronic F	Flammability 0 Flammability 0 Health Hazard	Instability 0 Physical hazards 0	Special hazards $-$ Personal protection $X$		
	abbreviations and acronyms u 8: Exposure controls/personal TWA (time-weighted average) Maximum limit value		<u>heet</u> STEL (Short Tern Skin designation	n Exposure Limit)		
Agency for Toxic U.S. Environment European Food S EPA (Environmen	erences and sources for data us Substances and Disease Registry al Protection Agency ChemView afety Authority (EFSA) tal Protection Agency) Suideline Level(s) (AEGL(s))	y (ATSDR)	3			

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

#### FG00009 - V-388 Radiant Red

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 <u>Disclaimer</u> 13-Sep-2022

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**