# SAFETY DATA SHEET

30411-3034



Revision Number 2

# 1. Identification

Product identifier

Product Name V-388 Radiant Red

Other means of identification

Revision date 13-Sep-2022

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

Revision date 13-Sep-2022

### Hazard statements

#### Danger

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

Page 2 of 11 Item Numbers: 30411-3034, 30411-3746

Revision date 13-Sep-2022

### 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

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 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 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 containment Prevent further leakage or spillage if safe to do so.

Item Numbers: 30411-3034, 30411-3746 Page 3 of 11

Revision date 13-Sep-2022

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.

### 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 red	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 0.2 mg/m³ Se	IDLH: 9 mg/m3 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/m³ Se
	respirable particulate matter	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 25 mg/m³ Zr
	TWA: 0.2 mg/m <sup>3</sup> Se	(vacated) STEL: 10 mg/m³ Zr	TWA: 0.2 mg/m³ except
	TWA: 5 mg/m³ Zr		Selenium hexafluoride Se
			TWA: 5 mg/m³ except Zirconium
			tetrachloride Zr
			STEL: 10 mg/m³ Zr
Kaolin	TWA: 2 mg/m³ particulate	TWA: 15 mg/m³ total dust	TWA: 10 mg/m³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m³ respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m³ total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable		IDLH: 50 mg/m³ respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m³ respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
F	0.751 40 4 2.7	TWA respirable fraction	15111.5 / 3.4
Frits, chemicals	STEL: 10 mg/m³ Zr	TWA: 10 μg/m³ As	IDLH: 5 mg/m³ As
65997-18-4	TWA: 0.01 mg/m <sup>3</sup> As	TWA: 50 µg/m³ Pb	IDLH: 9 mg/m³ Cd dust and
	TWA: 0.05 mg/m <sup>3</sup> Pb	TWA: 0.5 mg/m³ Sb	fume
	TWA: 0.01 mg/m³ Cd	TWA: 5 mg/m³ Zr	IDLH: 50 mg/m³ Sb
	TWA: 0.002 mg/m³ Cd	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb (vacated) TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 100 mg/m³ Cu dust and mist
	respirable particulate matter TWA: 0.5 mg/m <sup>3</sup> Sb	(vacated) STEL: 10 mg/m³ Zr	IDLH: 500 mg/m³ Mn
	TWA: 0.5 mg/m³ Sb TWA: 1 mg/m³ Cu dust and mist		IDLH: 25 mg/m³ Zr
	privin. Tring/in ou dust and mist	(vacated) Celling. 5 mg/m²	IDLI I. ZU IIIG/III° ZI

Item Numbers: 30411-3034, 30411-3746 Page 4 of 11

Revision date 13-Sep-2022

TWA: 3 mg/m³ W re	espirable	Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 100 mg/m <sup>3</sup> Pb
particulate matter in the	he 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	n respirable		fume 15 min
particulate ma	atter		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 ma	atter		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/m³ 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, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid Appearance

Color Odor

**Odor threshold** 

Property Values Remarks • Method

pHNo data availableNone knownMelting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlash pointNo data availableNone knownEvaporation rateNo data availableNone known

Item Numbers: 30411-3034, 30411-3746 Page 5 of 11

Revision date 13-Sep-2022

Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

Lower flammability or explosive No data available

limits
Vapor pressure

No data available None known No data available None known Relative vapor density 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 None known **Autoignition temperature** Decomposition temperature None known

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information
Explosive properties
Oxidizing properties
VOC Content (%)
No information available
No information available

### 10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

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

Item Numbers: 30411-3034, 30411-3746 Page 6 of 11

Revision date 13-Sep-2022

499.00 mg/kg ATEmix (oral) 5,693.10 mg/kg ATEmix (dermal) 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	A2	Group 1	Known	X
72828-62-7		Group 3		
Quartz 14808-60-7	A2	Group 1	Known	X
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)

X - Present

Page 7 of 11 Item Numbers: 30411-3034, 30411-3746

Revision date 13-Sep-2022

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	=	LC50: =16.07mg/L (96h,	=	-
H,6H)-triethanol		Danio rerio)		
4719-04-4		·		

#### 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

Item Numbers: 30411-3034, 30411-3746 Page 8 of 11

Revision date 13-Sep-2022

UN number or ID number Packing group UN3082

### 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 nol	4719-04-4	Present	Active
Ethanolamine	141-43-5	Present	Active

<sup>\*</sup>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. Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. KECL **PICCS** Contact supplier for inventory compliance status. 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	3-62-7 0.1	
	1.0	
Frits, chemicals - 65997-18-4	0.1	
	1.0	

Item Numbers: 30411-3034, 30411-3746 Page 9 of 11

Revision date 13-Sep-2022

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	-	X	-	-
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	-	Х
Kaolin 1332-58-7	X	X	Х
Quartz 14808-60-7	X	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 Health hazards 2 Flammability 0 Instability 0 Special hazards Health hazards 2 \* **HMIS** Flammability 0 Physical hazards 0 Personal protection X \* = Chronic Health Hazard

Chronic Hazard Star Legend

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Maximum limit value Skin designation Ceiling

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

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

Page 10 of 11 Item Numbers: 30411-3034, 30411-3746

Revision date 13-Sep-2022

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

13-Sep-2022

**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** 

Page 11 of 11 Item Numbers: 30411-3034, 30411-3746