#### 30579-3376

# SAFETY DATA SHEET



**Revision Number** 1

Revision date 27-Mar-2024

1. Identification		
Product identifier		
Product Name	TPL-59 Ruby	
Other means of identification		
Product Code(s)	FG00473	
Synonyms	37711P	
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 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

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#### Hazard statements

Danger

H301 - Toxic if swallowed H317 - May cause an allergic skin reaction H332 - Harmful if inhaled H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure



Physical state Liquid Precautionary Statements - Prevention Obtain special instructions before use Do not handle until all safety precautions have been read and understood 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 Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray

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

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) IF ON SKIN: Wash with plenty of 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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

#### Precautionary Statements - Storage Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

1.467 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.467 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

55.837 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

55.837 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

6.037 % 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

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Not applicable.
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Mixture

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Chemical name	CAS No	Weight-%
Frits, chemicals	65997-18-4	40 - 60
Kaolin	1332-58-7	3 - <5
Zircon, cadmium red	72828-62-7	3 - <5
Zircon	14940-68-2	1 - <3
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		

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	zt 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.

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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. Avoid breathing vapors or mists.
Conditions for safe storage, including any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

### 8. Exposure controls/personal protection

#### Control parameters

**Exposure Limits** 

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

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
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

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	particulate matter TWA: 0.1 mg/m <sup>3</sup> Mn inhalable particulate matter		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> Pb TWA: 0.015 mg/m <sup>3</sup> Mn STEL: 3 mg/m <sup>3</sup> Mn STEL: 10 mg/m <sup>3</sup> Zr
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
Zircon, cadmium red 72828-62-7	STEL: 10 mg/m <sup>3</sup> Zr TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd respirable particulate matter TWA: 0.2 mg/m <sup>3</sup> Se TWA: 5 mg/m <sup>3</sup> Zr	TWA: 0.2 mg/m <sup>3</sup> Se TWA: 5 mg/m <sup>3</sup> Zr (vacated) TWA: 0.2 mg/m <sup>3</sup> Se (vacated) TWA: 5 mg/m <sup>3</sup> Zr (vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 9 mg/m <sup>3</sup> Cd dust and fume IDLH: 1 mg/m <sup>3</sup> Se IDLH: 25 mg/m <sup>3</sup> Zr TWA: 0.2 mg/m <sup>3</sup> except Selenium hexafluoride Se TWA: 5 mg/m <sup>3</sup> except Zirconium tetrachloride Zr STEL: 10 mg/m <sup>3</sup> Zr
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

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

Chemical name	ACGIH
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
Zircon, cadmium red	5 μg/g creatinine - urine (Cadmium) - not critical
72828-62-7	5 µg/L - blood (Cadmium) - not critical

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
	ventilation systems.

Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Hand protection	Wear suitable gloves.	
Skin and body protection	Wear suitable protective clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and	

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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
pH	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	<b>ge</b> No 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	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	410 °C / 770 °F	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**

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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. Toxic if swallowed. (based on components).

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

Symptoms

Itching. Rashes. Hives. Coughing and/ or wheezing.

#### Acute toxicity

Numerical measures of toxicity No information available

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

ATEmix (oral)	200.40 mg/kg
ATEmix (dermal)	3,633.70 mg/kg
ATEmix (inhalation-dust/mist)	3.01 mg/l

#### Unknown acute toxicity

1.467 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 1.467 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

55.837 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

55.837 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

6.037 % 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)	-
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 informatio	No information available.		
Serious eye damage/eye	irritation No informatio	No information available.		
Respiratory or skin sensi	itization May cause ar	May cause an allergic skin reaction.		
Germ cell mutagenicity	No informatio	No information available.		
<b>Carcinogenicity</b> The table below indicates whether each agency has listed any ingredient as a carcinogen. Classification based on data available for ingredients. May cause cancer.				
Chemical name	ACGIH	IARC	NTP	OSHA

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Frits, chemicals	A1	Group 1	Known	Х
65997-18-4	A3	Group 2B	Reasonably Anticipated	
	A2	Group 2A		
Zircon, cadmium red	A2	Group 1	Known	Х
72828-62-7		Group 3		
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 informatio	No information available.		
STOT - single exposure	No informatio	No information available.		
STOT - repeated exposu	re May cause d	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 information	No information available.		
Other adverse effects	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.

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Other adverse effects	No information available.
13. Disposal consideration	S
Disposal methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.
14. Transport information	
DOT	Not regulated
UN number or ID number Packing group	UN3082 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
Frits, chemicals	65997-18-4	Present	Active
Water	7732-18-5	Present	Active
Kaolin	1332-58-7	Present	Active
Zircon, cadmium red	72828-62-7	Present	Active
Zircon	14940-68-2	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Smectite-group minerals	12199-37-0	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

DSL/NDSL C EINECS/ELINCS C ENCS C IECSC C KECL C
EINECS/ELINCS C ENCS C

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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 %
Frits, chemicals - 65997-18-4	0.1
	1.0
Zircon, cadmium red - 72828-62-7	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	-	-
Zircon, cadmium red 72828-62-7	-	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	
Frits, chemicals 65997-18-4	Х	-	Х	
Water 7732-18-5	-	-	Х	
Kaolin 1332-58-7	Х	X	Х	

_				
	Zircon, cadmium red	X	-	Х
	72828-62-7			
Γ	Ethanolamine	X	X	Х
	141-43-5			

#### 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
	rols/persona ted average) lue ces for data (	l protection S * used to compile	STEL		m 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 European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (ILM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization					
Revision date 27-Mar-2024 Revision Note <u>Disclaimer</u> 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					