Revision Number 1

A

EST. 1919

30417-4504

SAFETY DATA SHEET

Revision date 26-Mar-2024

1. Identification	
1. Identification	
Product identifier	
Product Name	LUG-65 Orange
Other means of identification	
Product Code(s)	FG00463
UN number or ID number	UN3082
Synonyms	41164N, 41194H
Recommended use of the chemical	and restrictions on use
Recommended use	
Restrictions on use	
Details of the supplier of the safety	data sheet
Manufacturer Address American Art Clay Co Inc 6060 Guion Road Indianapolis, IN 46254-1222 USA Toll Free: 1-800-999-5456 CustomerCare@Amaco.com	
Emergency telephone number	
Emergency Telephone	U.S. Poison Control 1-800-222-1222
2. Hazard(s) identification	
<u>Classification</u>	

Acute toxicity - Oral	Category 4
Specific target organ toxicity (repeated exposure)	Category 2

Hazards not otherwise classified (HNOC) Not applicable

Label elements

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Hazard statements Warning

H302 - Harmful if swallowed H373 - May cause damage to organs through prolonged or repeated exposure EUH208 - Contains (.?). May produce an allergic reaction

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

Precautionary Statements - Response

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

33.4422 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Other information

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

3. Composition/information on ingredients

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
C.I. Pigment Brown 33	68186-88-9	10 - 20
Quartz	14808-60-7	5 - <10
Kaolin	1332-58-7	5 - <10
Frits, chemicals	65997-18-4	5 - <10

4. First-aid measures

Description of first aid measures General advice Show this safety data sheet to the doctor in attendance. Inhalation Remove to fresh air

Innalation	Remove to fresh all.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.

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Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.			
Most important symptoms and effe	cts, both acute and delayed			
Symptoms	No information available.			
Indication of any immediate medica	al attention and special treatment needed			
Note to physicians	Treat symptomatically.			
E Fire fighting measures				
5. Fire-fighting measures				
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.			
Large Fire				
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.			
Specific hazards arising from the chemical	No information available.			
Explosion data Sensitivity to mechanical impac	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.			
6. Accidental release meas	sures			
Personal precautions, protective ed	guipment and emergency procedures			
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.			

	personnel to safe areas.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
Methods and material for contain	inment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		

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

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8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
C.I. Pigment Brown 33	-	TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m ³ Cr(III)
68186-88-9		(vacated) TWA: 0.5 mg/m ³ Cr	TWA: 0.5 mg/m ³ Cr
Quartz	TWA: 0.025 mg/m ³ respirable		IDLH: 50 mg/m ³ respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³ respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction : (10)/(%SiO2 + 2) mg/m ³	
		TWA respirable fraction	
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 15 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
1002 00 1	and <1% crystalline silica,	fraction	
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
Frits, chemicals	STEL: 10 mg/m ³ Zr	TWA: 10 µg/m³ As	IDLH: 5 mg/m ³ As
65997-18-4	TWA: 0.01 mg/m ³ As	TWA: 50 µg/m³ Pb	IDLH: 9 mg/m ³ Cd dust and
	TWA: 0.05 mg/m ³ Pb	TWA: 0.5 mg/m ³ Sb	fume
	TWA: 0.01 mg/m ³ Cd	TWA: 5 mg/m ³ Zr	IDLH: 50 mg/m ³ Sb
	TWA: 0.002 mg/m ³ Cd	(vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 100 mg/m ³ Cu dust and
	respirable particulate matter	(vacated) TWA: 5 mg/m ³ Zr	mist
	TWA: 0.5 mg/m ³ Sb	(vacated) STEL: 10 mg/m ³ Zr	IDLH: 500 mg/m ³ Mn
	TWA: 1 mg/m ³ Cu dust and mist TWA: 3 mg/m ³ W respirable	(vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn	IDLH: 25 mg/m ³ Zr IDLH: 100 mg/m ³ Pb
	particulate matter in the absence		IDLH: 10 mg/m ³ Pb
	of cobalt		Ceiling: 0.002 mg/m ³ As 15 min
	TWA: 5 mg/m ³ Zr		Ceiling: 0.05 mg/m ³ V dust and
	TWA: 0.02 mg/m ³ Mn respirable		fume 15 min
	particulate matter		TWA: 0.5 mg/m ³ Sb
	TWA: 0.1 mg/m ³ Mn inhalable		TWA: 1 mg/m ³ Cu dust and
	particulate matter		mist
			TWA: 1 mg/m³ Mn
			TWA: 5 mg/m ³ except Zirconium
			tetrachloride Zr
			TWA: 0.050 mg/m ³ Pb
			TWA: 0.015 mg/m ³ except
			Nickel carbonyl Ni
			STEL: 3 mg/m ³ Mn
			STEL: 10 mg/m ³ Zr

Biological occupational exposure limits

Chemical name	ACGIH
65997-18-4	200 μg/L - blood (Lead) - not critical 5 μg/g creatinine - urine (Cadmium) - not critical 5 μg/L - blood (Cadmium) - not critical

Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems.

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Individual protection measures, su	ch as personal protective equipme	<u>nt</u>	
Eye/face protection	No special protective equipment required.		
Skin and body protection	No special protective equipment required.		
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.		
9. Physical and chemical p	properties		
Information on basic physical and o Physical state Appearance Color Odor Odor threshold	chemical properties Liquid		
Property pH Melting point / freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability Flammability Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive limits Vapor pressure Relative vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Other information Explosive properties Oxidizing properties VOC Content (%)	Values No data available No information available No information available No information available	Remarks • Method None known None known	
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.		

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Hazardous decomposition products None known based on information supplied.

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

No information available. Symptoms

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)	822.80 mg/kg
ATEmix (dermal)	11,968.70 mg/kg
ATEmix (inhalation-dust/mist)	11.10 mg/l

Unknown acute toxicity

33.4422 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Component Information

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

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

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.

No information available. Carcinogenicity

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

 The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Chemical name	ACGIH	IARC	NTP	OSHA
C.I. Pigment Brown 33	-	Group 3	-	-
68186-88-9				
Quartz	A2	Group 1	Known	Х
14808-60-7				

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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 Group 3 - Not Classifiable as to Carcinogenicity in Humans NTP (National Toxicology Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present						
Reproductive toxicity No information available.						
STOT - single exposure No information available.						
STOT - repeated exposur	repeated exposure 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	on available.				
Other adverse effects	Other adverse effects					
Interactive effects						

12. Ecological information					
Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.				
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 Dispose of waste in accordance with environmental legislation. Dispose of in accordance					

products	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

DOT	
UN number or ID number Proper shipping name Transport hazard class(es) Packing group	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III
Special Provisions DOT Marine Pollutant	8, 146, 173, 335, IB3, T4, TP1, TP29 PP
Marine pollutant Description	Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III, Marine pollutant
Emergency Response Guide Number	171
TDG	
UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Special Provisions Marine pollutant name Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III 16, 99 Frits, chemicals. UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III
MEX	
UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III 274, 331, 335
ICAO (air)	
UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III
Special Provisions	A97, A158, A197, A215
IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions ERG Code	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III A97, A158, A197 9L
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III F-A, S-F

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Special Provisions Marine pollutant Marine Pollutant Description	274, 335, 969 P Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III, Marine pollutant
RID UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III M6 274, 335, 375, 601 UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III
ADR UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Tunnel restriction code Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III M6 (-) 274, 335, 601, 375 UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III, (-)
ADN UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Special Provisions Description Equipment Requirements	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III M6 274, 335, 375, 601 UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III PP

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
C.I. Pigment Brown 33	68186-88-9	Present	Active
Feldspar	68476-25-5	Present	Active
Kaolin	1332-58-7	Present	Active
Quartz	14808-60-7	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
D-gluco-Heptonic acid, monosodium salt, (2.xi.)-	31138-65-5	Present	Active
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
Hectorite	12173-47-6	-	Unknown *
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 EINECS/ELINCS Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.

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ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

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

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

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

- KECL Korean Existing and Evaluated Chemical Substances
- PICCS Philippines Inventory of Chemicals and Chemical Substances
- AIIC Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
C.I. Pigment Brown 33 - 68186-88-9	1.0
Frits, chemicals - 65997-18-4	0.1
	1.0

SARA 311/312 Hazard Categories

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

CWA (Clean Water Act)

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

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
C.I. Pigment Brown 33 68186-88-9	-	Х	-	-
Frits, chemicals 65997-18-4	-	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	-	-	Х
7732-18-5			
C.I. Pigment Brown 33	Х	-	Х
68186-88-9			
Feldspar	Х	-	Х
68476-25-5			
Kaolin	Х	Х	Х

1332-58-7			
Quartz 14808-60-7	X	X	X
Frits, chemicals 65997-18-4	X	-	X
Ethanolamine 141-43-5	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information								
NFPA HMIS	Health hazards 1 Health hazards * 2	Flammability Flammability		Instability 0 Physical hazards		Special hazards - Personal protection	х	
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)								
	imum limit value) 3	ICL	Skin designat				
Agency for Toxic Substa U.S. Environmental Prof European Food Safety A EPA (Environmental Prof Outside Exposure Guidelin U.S. Environmental Prof Food Research Journal Hazardous Substance D International Uniform CF National Institute of Tech Australia National Indus NIOSH (National Institut National Library of Medi National Library of Medi National Toxicology Pro New Zealand's Chemica Organization for Econom	btection Agency) ne Level(s) (AEGL(s)) tection Agency Federal Ir tection Agency Federal Ir tection Agency High Prod Database hemical Information Datal hnology and Evaluation (trial Chemicals Notificatio te for Occupational Safety cine's ChemID Plus (NLN cine's PubMed database gram (NTP) al Classification and Inform nic Co-operation and Dev nic Co-operation and Dev	try (ATSDR) v Database secticide, Fungicio uction Volume Cho oase (IUCLID) NITE) n and Assessmen v and Health) 1 CIP) (NLM PUBMED) nation Database ((relopment Environi velopment High Pro	de, and Rod emicals t Scheme (I CCID) ment, Healt oduction Vo	NICNAS) h, and Safety Public olume Chemicals Pro				
date of its publication. transportation, dispos relates only to the spe	26-Mar-24 ded in this Safety Data S The information given al and release and is no cific material designate ccess, unless specified	Sheet is correct to is designed only it to be considere d and may not be	as a guida ed a warran	nce for safe handli ity or quality specif	ng, us ficatio	se, processing, storag	ge,	