**SAFETY DATA SHEET** 

## 30417-4016

# AMACO EST. 1919 brent

Revision Number 1

Revision date 26-Mar-2024

1. Identification		
Product identifier		
Product Name	LUG-60 Light Yellow	
Other means of identification		
Product Code(s)	FG00461	
UN number or ID number	UN3082	
Synonyms	41162L, 41192T	
Recommended use of the chemica	l 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
Specific target organ toxicity (repeated exposure) Category 2		Category 2

#### Hazards not otherwise classified (HNOC) Not applicable

#### Label elements

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

Hazard statements

Warning

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

30.9022 % 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-%
Quartz	14808-60-7	10 - 20
Kaolin	1332-58-7	10 - 20
C.I. Pigment Yellow 159	68187-15-5	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.
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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Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.		
ects, both acute and delayed		
No information available.		
Indication of any immediate medical attention and special treatment needed		
Treat symptomatically.		
5. Fire-fighting measures		
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.		
Do not scatter spilled material with high pressure water streams.		
No information available.		
Explosion data Sensitivity to mechanical impact None.		
None.		
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	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.	
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. 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
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	TWA: 50 μg/m <sup>3</sup>	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	
Kaolin	TWA: 2 mg/m <sup>3</sup> particulate	TWA respirable fraction 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: 13 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
1002 00 7	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	
C.I. Pigment Yellow 159	STEL: 10 mg/m <sup>3</sup> Zr	TWA: 5 mg/m <sup>3</sup> Zr	IDLH: 25 mg/m <sup>3</sup> Zr
68187-15-5	TWA: 5 mg/m <sup>3</sup> Zr	(vacated) TWA: 5 mg/m <sup>3</sup> Zr	TWA: 5 mg/m <sup>3</sup> except Zirconium
		(vacated) STEL: 10 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 TWA: 3 mg/m <sup>3</sup> W respirable	(vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 25 mg/m <sup>3</sup> Zr IDLH: 100 mg/m <sup>3</sup> Pb
	particulate matter in the absence		IDLH: 10 mg/m <sup>3</sup> Pb
	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
			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
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

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	Ventilation systems.	
Individual protection measures, such as personal protective equipment		
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 properties		

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

Property pH Melting point / freezing point Initial boiling point and boiling rang Flash point Evaporation rate	No data available No data available	Remarks • Method None known None known None known None known	
Flammability Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive	No data available No data available No data available	None known None known	
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	No data available No data available	None known None known None known None known None known None known None known None known None known	
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.		

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11. Toxicological information

Hazardous decomposition products None known based on information supplied.

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	Specific test data for the substance or mixture is not available.	
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	No information available.

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)	973.30 mg/kg
ATEmix (dermal)	12,065.30 mg/kg
ATEmix (inhalation-dust/mist)	12.60 mg/l

#### Unknown acute toxicity

30.9022 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
C.I. Pigment Yellow 159 68187-15-5	-	-	> 5.5 mg/L (Rat)4 h
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.

## Carcinogenicity No information available.

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

 Chemical name
 ACGIH
 IARC
 NTP
 OSHA

 Quartz
 A2
 Group 1
 Known
 X

 14808-60-7

 X

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Frits, chemicals 65997-18-4	A1 A3 A2	Group 1 Group 2B Group 2A	Known Reasonably Anticipated	X
Legend ACGIH (American Confer A1 - Known Human Carcin A2 - Suspected Human Ca A3 - Animal Carcinogen IARC (International Agen Group 1 - Carcinogenic to Group 2A - Probably Carci Group 2B - Possibly Carcir NTP (National Toxicology Known - Known Carcinoge Reasonably Anticipated - F OSHA (Occupational Safe X - Present	logen Ircinogen Humans nogenic to Humans Iogenic to Humans y <b>Program)</b> In Reasonably Anticipat	<b>Cancer)</b> ed to be a Human Carcin	ogen	
Reproductive toxicity	No informat	ion available.		
STOT - single exposure	No informat	No information available.		
STOT - repeated exposure	May cause	May cause damage to organs through prolonged or repeated exposure.		
Target organ effects	Vascular Sy	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 informat	No information available.		
Other adverse effects				
Interactive effects				
12. Ecological inform	ation			
Ecotoxicity	Toxic to aqu	atic life. Harmful to aqua	tic life with long lasting effects.	
Persistence and degradabilit	<sup>t</sup> y			
Bioaccumulation	There is no	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.	

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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 UN number or ID number UN3082 Proper shipping name Environmentally hazardous substance, liquid, n.o.s. Transport hazard class(es) Packing group Special Provisions ш 8, 146, 173, 335, IB3, T4, TP1, TP29 **DOT Marine Pollutant** PP Marine pollutant Frits, chemicals Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III, Marine pollutant **Emergency Response Guide** 171 Number <u>TDG</u> **UN number or ID number** UN3082 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. Transport hazard class(es) 9 Packing group ш 16, 99 **Special Provisions** Marine pollutant name Frits, chemicals. Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III MEX UN number or ID number UN3082 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. Transport hazard class(es) 9 Packing group ш **Technical Name** Frits, chemicals Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III **Special Provisions** 274, 331, 335 ICAO (air) UN number or ID number UN3082 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. Transport hazard class(es) 9 Packing group 111 Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III **Special Provisions** A97, A158, A197, A215 <u>IATA</u> **UN number or ID number** UN3082 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. Transport hazard class(es) q Packing group ш **Technical Name** Frits, chemicals Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III **Special Provisions** A97, A158, A197 ERG Code 9L IMDG **UN** number or ID number UN3082 Environmentally hazardous substance, liquid, n.o.s. UN proper shipping name Transport hazard class(es) 9 Packing group ш EmS-No F-A, S-F **Special Provisions** 274, 335, 969

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Marine pollutant Marine Pollutant Description	P Frits, chemicals UN3082, Environmentally hazardous substance, liquid, n.o.s. (Frits, chemicals), 9, III, Marine pollutant
<u>RID</u> 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
Feldspar	68476-25-5	Present	Active
Kaolin	1332-58-7	Present	Active
Quartz	14808-60-7	Present	Active
C.I. Pigment Yellow 159	68187-15-5	Present	Active
Frits, chemicals	65997-18-4	Present	Active
Sodium carboxymethyl cellulose	9004-32-4	Present	Active
Sodium benzoate	532-32-1	Present	Active
Hectorite	12173-47-6	-	Unknown *
1,3,5-Triazine-1,3,5(2H,4H,6H)-trietha nol	4719-04-4	Present	Active
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/NDSLContact supplier for inventory compliance status.EINECS/ELINCSContact supplier for inventory compliance status.ENCSContact supplier for inventory compliance status.IECSCContact supplier for inventory compliance status.

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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 %	
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
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	-	-	x
Feldspar 68476-25-5	Х	-	X
Kaolin 1332-58-7	Х	X	X
Quartz 14808-60-7	Х	Х	X
Frits, chemicals 65997-18-4	Х	-	X
Ethanolamine 141-43-5	Х	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 1 Health hazards *			Instability 0 Physical hazards 0	Special hazards - Personal protection X
Legend Section 8: TWA T Ceiling N Key literature referent Agency for Toxic Sul U.S. Environmental European Food Safe EPA (Environmental Acute Exposure Guid U.S. Environmental U.S. Environmental U.S. Environmental Food Research Jour Hazardous Substand International Uniform National Institute of Australia National Ins NIOSH (National Ins National Library of M National Library of M National Toxicology New Zealand's Cher Organization for Eco	Protection Agency) deline Level(s) (AEGL(s)) Protection Agency Federa Protection Agency Federa Protection Agency High P nal ce Database Chemical Information Da Technology and Evaluation dustrial Chemicals Notific dustrial Chemicals Notific dustrial Chemicals Notific dustrial Chemicals Notific ledicine's ChemID Plus (N ledicine's ChemID Plus (N ledicine's PubMed databa Program (NTP) nical Classification and In nomic Co-operation and nomic Co-operation and	sonal protection         rage)         data used to compil         egistry (ATSDR)         Niew Database         noise (IUCLID)         production Volume C         Database (IUCLID)         on (NITE)         cation and Assessme         afety and Health)         (NLM CIP)         pase (NLM PUBMED)         nformation Database         Development Enviro         Development High P	e the SDS e the SDS dide, and Ro hemicals nt Scheme (CCID) nment, Hea	STEL (Short Ter Skin designation denticide Act (NICNAS)	DNS
date of its publicati transportation, disp	ovided in this Safety Da on. The information giv posal and release and is	ven is designed only s not to be consider	/ as a guida ed a warra	ance for safe handling, nty or quality specifica	ormation and belief at the use, processing, storage, ition. The information combination with any other

materials or in any process, unless specified in the text. End of Safety Data Sheet