

Revised: New Issue Grolleg Lump GHS 001



HMIS Ratings

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Health Hazard	1		
Fire Hazard	0		
Reactivity Hazard	0		
Max. Personal Protection	E		



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TO COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR.1910.1200 & THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product trade name(s): Grolleg Lump

Common Name(s): Kaolinitic Clay, Kaolin, China Clay, Hydrous Aluminum Silicate

Chemical Formula: $Al_2Si_2O_5(OH)_4$ CAS Number:1332-58-7

Physical Form: Light gray to white solid

Recommended Uses: Non-exhaustive list: Ceramics, ceramic glazes, refractories, fiberglass compositions,

industrial filler, extender, for paper, rubber, plastics, caulks/adhesives, pesticides,

sorbents, catalyst supports

Restrictions on Use: Food ingredient, cosmetic ingredient

Manufacturer's Name & Address: Imerys Minerals Ltd Telephone: +44(0) 1726 818000

Par Moor Centre **Fax:** +44(0) 1726 811200

Par Moor Road

Par, Cornwall England PL24 2SQ

Emergency Telephone: For Chemical Emergency Call CHEMTREC (24 hours): 1-800-424-9300

(US, Canada, Puerto Rico, Virgin Islands)

1-703-527-3887 (Outside Above Area) collect calls accepted

SECTION 2: HAZARDS IDENTIFICATION

Contains Crystalline Silica

Classification: Physical Hazards Not Classified

Health Hazards Not Classified Environmental Hazards Not Classified

Label Elements:

Signal Word:

None Required None Required

Product Name: **Grolleg Lump**SDS ID: Grolleg Lump GHS 001

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Weight % (Approx.)	CAS N°	EINECS N°	
Kaolin	60% - 100%	1332-58-7	310-194-1	
Quartz - Crystalline Silica	<1%	14808-60-7	238-878-4	
Quartz - Crystalline Silica Respirable	0.11%	14808-60-7	238-878-4	

SECTION 4: FIRST AID MEASURES

Inhalation

If adverse effects occur, get immediate medical attention. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if needed.

Skin

Wash immediately with soap and water. Get medical attention if irritation develops or persists.

Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Ingestion

DO NOT induce vomiting. If swallowed, drink plenty of water, do NOT induce vomiting. Never make an unconscious person vomit or drink fluids. Get medical attention.

Symptoms: Immediate

eye irritation, skin irritation, respiratory tract irritation

Symptoms: Delayed

gastrointestinal effects

SECTION 5: FIREFIGHTING MEASURES

Flammable Properties

Product is non-flammable.

Use extinguishing agents appropriate for surrounding fire.

Unsuitable Extinguishing Media

None known.

Protective Equipment and Precautions for Firefighters

No hazard is expected from the normal use of this product.

Fire Fighting Measures

No hazard expected

NFPA 704M Hazard Classification: Health: 1 Flammable: 0 Reactivity: 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep unnecessary people away, isolate hazard area and deny entry. Wet material is slippery under foot.

Wear personal protective clothing and equipment, see Section 8.

Environmental Precautions

Avoid release to the environment.

Cleanup Methods

Collect spilled material in appropriate container for reuse or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Avoid dust generation and accumulation. Do not use in poorly ventilated or confined spaces. Do not taste or swallow. Avoid inhalation or contact. Wash thoroughly after handling.

Conditions for Safe Storage

Store in a cool, dry place. Store in a well-ventilated area.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Follow standard occupational hygiene control methods and procedures. Use an approved respirator if exposure limits are exceeded or if exposure limits are exceeded or if irritation develops or persists.

Component Exposure Limits:

Hazardous Ingredient	Weight % (Approx.)	CAS N°	OSHA PEL*	ACGIH TLV*
Kaolin	60% - 100%	1332-58-7	15 mg/m ³ (Total	2 mg/m³ (Respirable
Quartz - Crystalline Silica	<1%	14808-60-7	0.1mg/m ³ (Respirable Fraction)	0.025 mg/m³ (Respirable Fraction)

^{*} Unless otherwise noted, all PEL and TLV are reported as 8 hour time weighted average (TWA).

Component Analysis

There are no biological limit values for any of this product's components.

Engineering Controls

Ventilation: Use exhaust ventilation, if required, to maintain dust concentration below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Where there is potential for airborne exposure, use of a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended.

Eyes/Face: Wear side shield safety glasses or chemical resistant safety goggles.

Glove Recommendation: Rubber gloves are recommended for prolonged exposure.

Protective Clothing: Wear appropriate chemical resistant clothing. Contaminated clothing should be removed and

laundered before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Lump Appearance: white to off white solid

Color: white to gray Physical Form: lump

Boiling Point: Not applicable Flash Point: Will not ignite

Decomposition: loses crystalline water at > 500°C (930°F) **Evaporation Rate:** Not applicable **LEL:** Not applicable **UEL:** Not applicable

Vapor Pressure: Not applicable

Vapor Density (air = 1): Not applicable

Density Not applicable Specific Gravity (water = 1): ~2.6 gm/cc ater Solubility: None Coeff> Water/Oil Dist: Not applicable

Water Solubility: None Coeff> Water/Oil Dist: Not applicable
Auto Ignition: Will not ignite Viscosity: Not applicable

uto Ignition: Will not ignite

Flow Point: Not applicable

Sublimation Point: Not applicable

VOC: None

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:

No reactive hazard is expected.

Chemical Stability:

Stable at normal temperatures and pressure

Possibility of Hazardous Reactions:

Will not oxidize or polymerize.

Conditions to avoid:

None known.

Materials to Avoid (Incompatibilities):

None known.

Decomposition Products:

When exposed to high temperatures, free quartz can change crystal structure to form tridymite (above 870°C) or cristobalite (above 1470°C) which have greater health hazards than quartz. (Tridymite and cristobalite (TWA-TLV) = 0.025 mg/m³.)

SECTION 11: TOXICOLOGICAL INFORMATION

Primary Route of Exposure: Skin, Eye Contact, Inhalation and Ingestion

Acute Health Hazards:

Eye contact may cause mechanical irritation.

Skin contact may aggravate existing dermatitis.

Inhalation from prolonged and continuous exposure to excessive quantities of dust may aggravate existing asthmatic or respiratory conditions.

Acute and Chronic Toxicity

May cause eye irritation, skin irritation, respiratory tract irritation, and gastrointestinal tract irritation. May cause damage to respiratory tract through prolonged or repeated exposure.

Occupationally inhaled kaolin produced pulmonary fibrosis with sites of action being the lung, the lymph nodes and the hilus. Kaolin when taken orally over a long period of time can cause granulomas of the stomach.

Exposure to quartz (the most stable and common form of crystalline silica) is responsible for the majority of clinically diagnosed silicosis. Silicosis is a fibronodular lung disease that occurs after occupational exposure to crystalline silica for 5 years or longer. Inhalation of quartz dusts may cause shortness of breath, limitation of chest expansion, dry cough, and a lessened capacity for work. Individuals with a pre-existing disease in, or a history of ailments involving the skin or respiratory tract, are at greater risk for developing adverse health effects when exposed to this material.

In humans, chronic intermittent exposure to quartz caused pulmonary fibrosis, cough, and difficulty breathing. Overexposure to crystalline silica may cause silicosis, a form of disabling, progressive, and sometimes fatal pulmonary fibrosis characterized by the presence of typical nodulation in the lungs. Tuberculosis frequently complicates silicosis and the risk for tuberculosis is also increased in workers exposed to silica who have no radiographic evidence of silicosis. Crystalline silica can cause silicotic lesions in such organs as the liver, spleen and bone marrow. In humans, a causal relationship exists between exposure to crystalline silica and the development of autoimmune diseases. In multi-dose studies with animals, long term inhalation of quartz affected the lungs, endocrine system, immune system and blood.

This product contains quartz (respirable) as an impurity. Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France.)

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Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Quartz - Crystalline Silica (14808-60-7)

Oral LD50 Rat 500 mg/kg

Irritation/Corrosivity Data

May cause eye irritation, skin irritation, respiratory tract irritation, and gastrointestinal tract irritation.

Respiratory Sensitizer

No test data available

Dermal Sensitizer

No test data available

Carcinogenicity

Component Carcinogenicity

Kaolin - CAS Nº 1332-58-7

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Quartz - Crystalline Silica - CAS Nº 14808-60-7

ACGIH: A2 - Suspected Human Carcinogen **IARC:** Group 1 - Carcinogenic to humans

Mutagenic Data

No information available

Reproductive Effects Data

No information available

Specific Organ Toxicity - Single Exposure

Target organs include ears, skin, respiratory system, and gastrointestinal tract.

Specific Organ Toxicity - Repeated Exposure

Causes damage to eyes, skin, respiratory system, and gastrointestinal tract through prolonged or repeated exposure.

Aspiration Hazard

No data available

Medical Conditions Aggravated by Exposure

Individuals with pre-existing eye disorders, skin disorders, respiratory disorders and/or gastrointestinal disorders may have increased

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available for the product

Component Analysis - Aquatic Toxicity

Acute Toxicity - fish LC_{50} , 96 hours: > 1000 mg/l, Fish

Acute Toxicity - aquatic invertebrates EC_{50} , > 48 hours:100 mg/l, Daphnia magna

Acute Toxicity - aquatic plants IC_{50} , > 72 hours: 100 mg/l, Algae

Bioaccumulation

No information available for the product

Bioconcentration

This material is not believed to bioconcentrate

Biodegradation

This product is made from a naturally occurring, abundant, innocuous mineral

Persistence

This product is made from a naturally occurring, abundant, innocuous mineral

Mobility in Soil:

This product is insoluble in water

Results of PBT and vPvB Assessment

Not relevant

Other Toxicity

May affect turbidity if discharged in large quantities to lakes, streams or sewers.

SECTION 13: DISPOSAL CONSIDERATIONS

Non-hazardous waste - RCRA (40 CFR 261)

Dispose of waste materials in accordance with all local, state, and Federal requirements.

This product may not be disposed of in waterways or sewers.

SECTION 14: TRANSPORT INFORMATION

EPA Waste Number: Not regulated.Transport Hazard Class(es)Not required.DOT Classification: Not regulated.PackingNot required.IMO Classification: Not regulated.Environmental HazardsNot required.Internal UN: Not regulated.Transport in BulkNot required.

IMDG Code: This product is not considered to be a marine pollutant.

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SECTION 15: REGULATORY INFORMATION

SARA Title III Section 302 Extremely Hazardous Substances: This product does not contain extremely hazardous subject to the reporting requirements of Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 355.

SARA Title III Section 311 and 312 Health and Physical Hazard Categories per 40 CFR 370.2:

Immediate Delayed Fire Pressure Reactivity

Yes Yes No No No

SARA Section 313 Notification: This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA: Product is listed in Initial Inventory, Vol. 1, Appendix A, CAS No. 1332-58-7

FDA: Kaolin is generally recognized as safe (GRAS) under the FDA in accordance with 21 CFR 186.1256. Additionally, kaolin is established as a component of the uncoated or coated food contact surface of paper and paperboard in accordance with 21 CFR 176.170 (aqueous and fatty foods) and CFR 176.180 (dry foods).

CERCLA: Kaolin is not a CERCLA listed hazardous substance.

California Proposition 65: WARNING: This product may also contain extremely small amounts of one or more naturally-occurring materials known to the State of California to cause cancer, birth defects, or other reproductive harm.

NJ Special Health Hazardous Substances List [4]: RTK Hazardous Substance List; Substance number 4016.

PA Special Hazardous Substances List: Regulated under PA Code Chapter 323.

Stockholm Convention: This product is not subject to the Stockholm Convention.

Montreal Protocol: This product is not subject to the Montreal Protocol.

Rotterdam Convention: This product is not subject to the Rotterdam Convention.

National Inventories:

DSL (Canada): Listed
NDSL (Canada): Not Listed
PICCS (Philippines): Listed
KECL (Korea): Listed
ENCS (MITI) (Japan): Listed
AICS (Australia): Listed
IECSC (China): Listed
EINECS (Europe): Listed

REACh Status: Exempt (Annex v.7). Product is a naturally occurring mineral.

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SECTION 16: OTHER INFORMATION

Training

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

Summary of Changes

New SDS 23-May-2016

Key / Legend

ACGIH American Conference of Governmental Industrial Hygienists

AICS Australian Inventory of Chemical Substances

CAS Chemical Abstract Service

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CFR Code of Federal Regulations

CHEMTREC Chemical Transportation Emergency Center

DOT Department of Transportation
DSL Canadian Domestic Substances List

EINECS European Inventory of New and Existing Chemical Substances

ENCS Existing and New Substances Inventory
EPA Environmental Protection Agency
FDA Food and Drug Administration

HMIS Hazardous Materials Identification System
IARC International Agency for Research on Cancer

IECSC Inventory of Existing Chemical Substances Produced or Imported in China

IMDG International Maritime Dangerous Goods Code

IMO International Maritime Organization
KECI Korean Existing Chemicals Inventory

LEL Lower Explosive Limit

LOLI List Of Lists

MITI Japanese Ministry of international Trade and Industry

MSHA Mine Safety and Health Administration
NDSL Canadian Non-Domestic Substance List

NIOSH National Institute of Occupational Safety and Health

NFPA National Fire Protection Agency

OSHA Occupational Health and Safety Administration
PBT Persistent Bioaccumulative Toxic Chemical

PEL Permissible Exposure Limit

PICCS Philippine Inventory of Chemicals and Chemical Substances

RCRA Resource Conservation and Recovery Act

REACh Registration, Evaluation, Authorization and Restriction of Chemicals

RTK Right to Know

SARA Superfund Amendments and Reauthorization Act

SDS Safety Data Sheet

STOT Specific Target Organ Toxicity

TLV Threshold Limit Value
TSCA Toxic Substances Control Act
TWA Time Weighted Average
UEL Upper Explosive Limit
UN United Nations

VOC Volatile Organic Content

vPvB Very Powerful Very Bioaccumulative

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Disclaimer

Such information is to the best of IMERYS knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. IMERYS NORTH AMERICA CERAMICS MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

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END OF SHEET

Grolleg Lump GHS 001