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MATERIAL SAFETY DATA SHEET

Section 1 - Material Identity

Product Trade Name(s):

Glomax LL

Common Names(s):

Calcined Kaolin Clay, Calcined China Clay

Chemical Name:

Anhydrous Aluminum Silicate 66402-68-4 (In TSCA Inventory)

CAS Number: Physical Form:

White Powder

HMIS Ratings

	•
Health Hazard	1
Flammability Hazard	0
Reactivity Hazard	0
Max. Personal Protection	Е

Manufacturer's Name & Address:

Roswell, GA 30076

IMERYS Pigments & Additives Group, 100 Mansell Court East, Suite 300;

Emergency Telephone:

(800) 424-9300 CHEMTREC

Section 2 - Ingredients and Hazards

Ingredient Calcined Kaolin - Al Si O Wt. % (Approx.) >99%

< 1%

CAS No. 66402-68-4 OSHA PEL*

ACGIH TLV* 2 mg/m Resp.

5 mg/m3 Resp.

15 mg/m3 Total

* Unless otherwise noted, all PEL and TLV values are reported as 8 hour time weighted averages (TWA).

Section 3 - Hazards Identification and Cautions

Appearance: White Powder

Primary Routes of Entry: Skin contact, skin absorption, eye contact, ingestion: Hazard Classification - None. (Historical

basis for

classification.)

Target Organs:

Eye, skin and lungs

Medical Conditions Aggravated by Exposure: Skin contact may aggravate existing dermatitis. Breathing excessive quantities of dust may aggravate pre-existing respiratory conditions.

Potential Health Effects:

Eye Contact: This product may produce irritation upon contact with the eye. See also Section 4 below.

Skin Contact: Prolonged or repeated exposure may cause skin irritation. Material is not expected to be absorbed through the skin in harmful amounts or to produce an allergic skin reaction. See also Section 4 below.

Ingestion: No adverse effect is expected. If ingested, seek medical advice. See also Section 4 below.

Inhalation: The raw material for calcined kaolin is "kaolin," CAS No. 1332-58-7. Inhalation of excessive quantities of kaolin dust may irritate the respiratory tract. Prolonged exposure to respirable kaolin dust without use of appropriate respiratory equipment could adversely affect respiratory function including fibrogenic response. See Am. Rev. Respir. Dis. 1983; 127:215-220; 231-253; 141-142; Doc. Thres. Limit Values and Bio. Exp. Ind., Sixth Edition, 1991: OSHA PEL-29 C.F.R. 1910.1000.

Subchronic, Chronic: None expected. No applicable information was found concerning any potential health effects resulting from subchronic or chronic exposure to kaolin.

No crystalline silica detected using the recommended NIOSH test method 7500.

		Measures	

Eye Contact: Follow good industrial hygiene practices. In case of contact, immediately flush eyes with plenty of water. Seek medical

aid if necessary.

Skin Contact: Follow good industrial hygiene practices. Wash affected skin areas thoroughly with soap and water.

Seek medical aid if necessary.

Inhalation: Follow good industrial hygiene practices. If excessive exposure by inhalation is suspected, remove to

fresh air. If necessary, a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended. Seek

medical aid if necessary.

Ingestion: Follow good industrial hygiene practices. If ingested, do not induce vomiting. If conscious, drink two

glasses of water. Seek medical aid if necessary.

Section 5 - Fire Fighting Measures

Explosion Data: Not Explosive Flammablity: Not Flammable or Combustible

 LEL:
 Not Applicable
 Flash Point: Not Applicable

 UEL:
 Not Applicable
 Auto-Ignition: Not Applicable

Extinguishing Media: Product will not burn.

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

Use appropriate extinguishing media for packaging material if applicable.

Section 6 - Accidental Release Measures

Vacuum, pump or scoop spilled material into containers for reclaiming or disposal. Use proper respiratory and personal protective equipment.

MSHA/NIOSH or OSHA/NIOSH approved respirator recommended. Spilled materials may cause slippery conditions when wet. Care should be exercised when walking on spills on floors or concrete pads. No neutralizing chemicals required. Material is inert and nonreactive. Kaolin is not a CERCLA listed hazardous substance.

Section 7 - Handling and Storage

Storage in a cool, dry location is recommended.

Spilled materials may cause slippery conditions when wet. Care should be exercised when walking on spills on floors or concrete

pads.

Minimize dust generation & accumulation.

If excessive dust is generated, provide adequate ventilation and use proper respiratory and personal protective equipment. MSHA/NIOSH or OSHA/NIOSH approved respirator recommended

Section 8 - Exposure Control/Personal Protection

OSHA Permissible Exposure Limits or ACGIH Threshold Limit Values have not been established for CAS # 66402-68-4. The raw material for calcined kaolin is "Kaolin", CAS No. 1332-58-7. MSHA/OSHA and ACGIH values for "Kaolin" are as follows:

Hazardous Weight CAS No. MSHA PEL OSHA PEL ACGIH TLV

Ingredient %(Approx.)

1332-58-7 10mg/cu.m. Total 15mg/cu.m. Total 2 mg/cu.m. 5 mg/cu.m. Resp. Respirable

Unless otherwise noted, all PEL and TLV values are reported as 8 hour time weighted averages (TWA).

Respiratory Protection: If respirator is required, use of a MSHA/NIOSH or OSHA/NIOSH approved respirator is

recommended.

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

exposure limits.

Protective Equipment: Wear side shield safety glasses. Rubber gloves are recommended for prolonged exposure.

Section 9 - Physical and Chemical Properties

 Physical State:
 Solid
 Bolling Point:
 Not Applicable

 Appearance & Odor:
 Odorless, white powder
 Freezing Point:
 Not Applicable

Appearance & Odor:Odorless, white powderFreezing Point:Not ApplicablepH (Aqueous Suspension):4.0 - 8.0Vapor Pressure:Not ApplicableSpecific Gravity:~2.7Vapor Density:Not Applicable% Solubility in Water:InsolubleVOC:None

Melting Point: Evaporation Rate: Not Applicable

Not Determined, > 1500°C

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		Section 10 - Stability a	nd Reactivity		7
Chemically Stable? Compatible with O Hazardous Decomp Conditions Contrib	ther Substances? position/By-Prod	Inert and nonreactive.	I nonreactive.	pected. Inert and nonreactive.	
		Section 11 - Disposal C			
EPA Waste Number federal requirements				ose of waste material in accordance	ce with all local, state ar
		Section 12 - To	xicological Info	rmation	
		or calcined kaolin is "kaolin," C. kin; <u>X</u> Eye Contact; <u>X</u> Inl		ion	
Skin contact may ag	gravate existing de onged and continu- as. pected when ingest	ous exposure to excessive quanti		avate existing asthmatic or	
Prolonged inhalation	of excessive level lung function. In o	ases of long term exposure to ex	nple pneumoconiotic o stremely high levels o	condition, not normally associated f dust, complicated pneumoconio	d sis
Carcinogenicity: N	TP? <u>No</u>	IARC? <u>No</u>	OSH	A? <u>No</u>	
Mutagenicity: Non	e known	Teratogenicity: None know	wn Repro	oductive Effects: None known	
		Section 13 - Transport	t Information		
EPA Waste Numbe DOT Classification Internal UN:	: Not Regulated	Regulated DOT/IMO Classificati Regulated	on: Not Regulated		····
		Section 14 - Regulator		,	
accordance with 21 (CFR 186.1256. Ad	Kaolin is "Kaolin", CAS No. 133 Iditionally, kaolin is established 176.170 (aqueous and fatty foc	as a component of the	generally recognized as safe (GR. e uncoated or coated food-contact 180 (dry foods).	AS) under the FDA in surface of paper and
substances subject to Act of 1986 and 40 (the reporting requ CFR Part 355.	ly Hazardous Substances: Thi irements of Section 302 of Title Health and Physical Hazard (III of the Superfund	Amendments and Reauthorization	n
<u>Immediate</u> Yes	<u>Delayed</u> Yes	<u>Fire</u> No	<u>Pressure</u> No	Reactivity 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. 66402-68-4.

The International Agency for Research on Cancer has concluded that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I)." It also noted that carcinogenicity was not detected in all industrial circumstance studies, and may be dependent on external factors affecting its biological activity or distribution of its polymorphs. (See IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 68 (1997).) Exposure to respirable silica has also been associated with silicosis, scleroderma, and nephrotoxicity. (See Occupational Lung Disorders, Third Edition, Chapter 12 (1994) and American Journal of Respiratory and Critical Care Medicine, Volume 155, pp 761-765 (1997).) Using recommended NIOSH test method 7500, no crystalline silica was detected.

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. While this information and recommendations set forth herein are believed to be accurate as of the date hereof, IMERYS PIGMENTS & ADDITIVES GROUP MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

IMERYS is a business name of IMERYS Pigments, Inc., IMERYS Kaolin, Inc. and IMERYS Marble, Inc. Registered in the USA. Registered Office: 100 Mansell Court East, Suite 300, Roswell, GA 30076.

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