

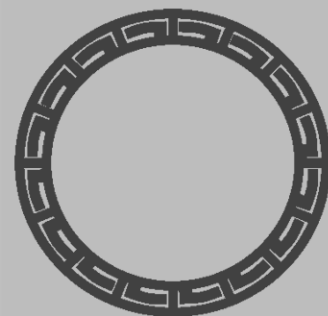
Material Safety Data Sheet

Glycerin

Product Code: LI-GO0055

Department: other binders and additives

C.A.S.: 56-81-5



KAMA
PIGMENTS

Section: 1 Identification

PRODUCT NAME	HG Glycerin 99.5% Min.
MATERIAL USE	Defoaming Agents used in the manufacture of paper and paperboard. Glue.
PRODUCT USE	Industrial.
CHEMICAL FAMILY	Glycerin.

Section: 2 Hazard Identification

Hazard classification	Not Assessed.
Signal word	Not Assessed.
Hazard Statements	Not Assessed.
Precautionary Statements	Not Assessed.
Other Hazards	Not Assessed.

GHS Label Elements

Signal Word

Precautionary Statements

GHS Classification

Hazard Statements

Section: 3 Composition / Information on Ingredients

HAZARDOUS INGREDIENTS	CAS #	WT. %
Glycerin	56-81-5	99.5

Section: 4 First-Aid Measures

SKIN CONTACT	Wash affected area immediately with large amounts of soap and water. If irritation develops or persists, seek medical attention.
EYE CONTACT	Immediately hold eyelids open and flush with water for at least 5 minutes. If irritation develops or persists, seek medical attention.
INHALATION	Move victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.
INGESTION	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. If necessary, seek medical attention.
NOTES TO PHYSICIAN	No additional remark.

Section: 5 Fire-Fighting Measures

EXTINGUISHING MEDIA	Water fog, alcohol foam, carbon dioxide, dry chemical, halogenated agents.
HAZARDOUS COMBUSTION PRODUCTS	Not available.
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear protective equipment as required.
UNUSUAL FIRE / EXPLOSION HAZARDS.	None known.

Section: 6 Accidental Release Measures

LEAKS AND SPILLS	Absorb with an inert material and place in a chemical waste container. Do not allow product to enter sewers or waterways. Flush area with detergent and water to remove final traces. Wear protective clothing during cleanup.
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Section: 7 Handling And Storage

HANDLING PROCEDURES	Avoid inhalation and ingestion. Use good industrial hygiene practices in handling this material.
STORAGE NEEDS	Do not store in open, unlabeled or mislabeled containers. Keep container tightly closed. Storage requirements between 50-90 deg F in original closed container. Store in a cool, dry, well-ventilated area.

Section: 8 Exposure Control/Personal Protection

INGREDIENTS	ACGIH TWA	TLV STEL	OSHA PEL	PEL STEL	NIOSH REL
Glycerin	Not Indicated				
VENTILATION REQUIREMENTS	General ventilation is recommended.				
PROTECTIVE EQUIPMENT					
EYE/TYPE	Safety goggles or glasses required.				
RESPIRATORY/TYPE	Respiratory protection is not required under conditions of normal use. Use respiratory protection if material is sprayed or heated under poorly ventilated areas.				
GLOVES/ TYPE	Impermeable gloves.				
CLOTHING/TYPE	No special PPE required.				
FOOTWEAR/TYPE	No special PPE required.				
BODY/TYPE	No special PPE required.				

Section: 9 Physical and Chemical Properties

PHYSICAL STATE	Colourless liquid.
ODOUR	Odourless.
ODOUR THRESHOLD (ppm)	Not available.
pH	Neutral.
FREEZING POINT (°C)	64.4 °C / 18 °C.
MELTING POINT (°C)	Not applicable.
BOILING POINT (°C)	290 °C.
FLASH POINT (°C), METHOD	177 deg. °C (COC).
EVAPORATION RATE	Not available.
FLAMMABILITY	Class IIIB.
UPPER FLAMMABLE LIMIT (% VOL)	Unknown.
LOWER FLAMMABLE LIMIT (% VOL)	Unknown.
VAPOUR PRESSURE (mm Hg)	<0.01hPa (20 °C) <1hPa (100 °C).
VAPOUR DENSITY (AIR=1)	Not available.
SPECIFIC GRAVITY	Not available.
SOLUBILITY IN WATER (% W/W)	Miscible.
COEFFICIENT OF WATER\OIL DISTRIBUTION	Not applicable.
AUTO IGNITION TEMPERATURE (°C)	400 °C.
VISCOSITY	1300 mPa.s (20 °C).
% VOLATILE BY VOLUME	Not available.

Section: 10 Stability And Reactivity

HAZARDOUS POLYMERIZATION	Will not occur.
STABILITY	Stable.
INCOMPATIBILITY	Oxidizing materials.
CONDITIONS TO AVOID	None known.
SENSITIVITY TO MECHANICAL IMPACT	Not sensitive.
SENSITIVITY TO STATIC DISCHARGE	Not sensitive.
HAZARDOUS PRODUCTS OF DECOMPOSITION	Carbon monoxide and/or carbon dioxide.

Section: 11 Toxicological Information

INGREDIENTS	LC50	LD50
Glycerin	60 hour Rat >4 mg/L	Oral Rat 17000-27211 mg/kg Dermal Rabbit >10000 mg/kg
ROUTE OF ENTRY	Eye contact. Skin contact. Inhalation. Ingestion.	
SKIN CONTACT	Not expected to be a health hazard.	
EYE CONTACT	Not expected to be a health hazard.	
INHALATION	Not expected to be a health hazard.	
INGESTION	Not expected to be a health hazard.	
MEDICAL CONDITIONS AFFECTED BY EXPOSURE	None known.	
SIGNS OF OVER EXPOSURE	No additional remark.	
TOXICITY EFFECTS ON ANIMALS	Non-irritating.	
TOXIC EFFECTS ON HUMANS	Non-irritating to eyes and skin. Non-sensitizer in case of skin.	
CHRONIC EFFECTS ON HUMANS	No specific information is available in our database regarding the other chronic toxic effects of this material for humans.	
TERATOGENICITY	No evidence of teratogen effects.	
MUTAGENICITY	No evidence of mutagenic effects.	
REPRODUCTIVE EFFECTS	No evidence of reproductive effects.	
CARCINOGENICITY	No evidence of carcinogenic effects according to ACGIH or IARC.	

Section: 12 Ecological Information

ECOTOXICITY DATA
FISH TOXICITY
PRODUCTS OF DEGRADATION
BIODEGRADABILITY

Not available.
Not harmful to aquatic organisms.
This product is completely biodegradable in water.
Our database contains no additional remark on the biodegradation of this product.

Section: 13 Disposal Considerations

WASTE DISPOSAL

Dispose in a suitable waste treatment facility in compliance with all federal, provincial and local regulations.

Section: 14 Transport Information

TDG CLASSIFICATION

Not regulated under TDG (Canada).

Section: 15 Regulatory Information

CEPA STATUS
WHMIS CLASSIFICATION
SGH CLASSIFICATION

All the ingredients are on the DSL list.
This is not a WHMIS controlled product.
This is not a SGH controlled product.

Section: 16 Other Information

reference
prepared by

manufacturer's material safety data sheet
Kama pigments

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