

MATERIAL SAFETY DATA SHEET

LIQUA-GEL

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SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT NAME: Liqua-Gel

SYNONYMS: Lubricating Gel

MOLECULAR FORMULA: Mixture

MOLECULAR WEIGHT: N/A

CHEMICAL NAME: N/A

CHEMICAL FAMILY: N/A

<u>INGREDIENT (CAS NUMBER)</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Glycerin (56-81-5)	3	10 mg/m ³ (mist)	10 mg/m ³ (mist)
Hydroxypropyl methylcellulose (9004-65-3)	2.7	N/A	N/A
Propylene Glycol (57-55-6)	1.5	N/A	N/A

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A

VAPOR PRESSURE: N/A

MELTING POINT: N/A

VAPOR DENSITY: N/A

SPECIFIC GRAVITY: N/A
(WATER = 1)

EVAPORATION RATE: N/A
(BUTYL ACETATE = 1)

WATER SOLUBILITY: Miscible

WATER REACTIVE: No

APPEARANCE AND ODOR: Clear, colorless, viscous gel; odorless.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): N/A NFPA RATING: N/A

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: As with any organic compound, this material may produce toxic fumes if heated to decomposition.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: As with any organic compound, this material may produce toxic fumes if heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur (X)

SECTION 5 - HEALTH HAZARD DATA

TOXICITY: No specific toxicity data available for this product, however, all ingredients are generally recognized as safe (GRAS) for ingestion in amounts present.

CARCINOGEN LISTED BY:	NTP	Yes ()	No (X)
	IARC	Yes ()	No (X)
	OSHA	Yes ()	No (X)
	Other	Yes ()	No (X)

ROUTES OF ENTRY: Ingestion.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: Little or no respiratory hazards or effects expected.

EYE CONTACT: May cause irritation.

SKIN CONTACT: May cause irritation in sensitive individuals.

INGESTION: May cause irritation of the gastrointestinal tract.

CHRONIC EFFECTS OF OVEREXPOSURE: None known or expected.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Hypersensitivity to any of the ingredients in this product.

OTHER PRECAUTIONS TO CONSIDER: Persons developing hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: No health hazard expected and no first aid procedures should be required.

EYE CONTACT: Flush with water for at least 15 minutes. If irritation persists or develops seek medical attention.

SKIN CONTACT: Wash thoroughly with soap and water. If irritation persists or develops seek medical attention.

INGESTION: Little or no effects expected, however, prudence indicates that the victim seek medical attention or contact a poison control center following ingestion.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES
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RESPIRATORY PROTECTION: No special respiratory protection required.

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Safety glasses or goggles. Avoid wearing contact lenses when working with this or any chemical due to the possibility of increased severity of eye damage.

VENTILATION: No special ventilation required.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Do not eat, drink or smoke near this material. Wash thoroughly after handling and wash any contaminated clothing before reuse.

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Avoid contact with eyes, skin or clothing. Wash thoroughly after handling and wash any contaminated clothing before reuse.

STORAGE PRECAUTIONS: Store in a tight container in a cool, dry, well ventilated location. Avoid exposure to extremes of heat or cold.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear protective gear including gloves and apron. Wipe or mop up spillage and place in a tight container. Wash and ventilate spill site. Wash thoroughly or shower after handling and wash all clothing and protective gear before reuse.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable local, state, federal, and environmental regulations.

SECTION 9 - DISCLAIMER

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DEFINITIONS OF ABBREVIATIONS USED:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstract Service
IARC:	Internal Agency for Research on Cancer
IDLH:	Immediately Dangerous to Life or Health level
LC ₅₀ :	Median Lethal Concentration
LD ₅₀ :	Median Lethal Dose
MSHA:	Mine Safety and Health Administration
N/A:	Not available
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average