

Safety Data Sheet



MSD132EN

Rev. E Date: 21 October 2022

1.0 PRODUCT AND COMPANY IDENTIFICATION

Supplier:

Graco Inc. P.O. Box 1441 88 11th Ave. NE Minneapolis, MN 55440–1441

Contact: www.graco.com

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA/Canada: 1-800-424-9300 Outside USA/Canada: 1-703-741-5970

Product Name: Food Grade Glycerin Hose Pump Lubricant

Part Number(s): 24K692, 24K694, 24M435, 24Y920

Use: Food quality glycerin lubricant for peristaltic hose pumps.

2. Hazard(s) identification

	Emergency Overview		
Health	njuries are not known or expected under norn	nal use.	
Appearance	Physical State	Odor	
Clear Colorless	Liquid	Odorless	

This product is NOT classified as hazardous according to the criteria contained in the Hazard Communication Standard 29 CFR 1910.1200 (known as HCS 2012) or the Hazardous Products Regulations SOR/2015-17 (known as WHMIS 2015). One or more of the product component(s) is known to be listed as an OSHA 29 CFR 1910.1000 Air Contaminant. Occupational exposure limits are subsequently provided in section 8 of this SDS.

3. Composition/information on ingredients

Molecular Formula

C3 H8 O3

The following component(s) in this product are considered hazardous under applicable OSHA (USA), WHMIS (Canada), and/or NOM-002-SCT-2003 (Mexico) regulations (or require disclosure as an air contaminant)

Chemical Name	CAS-No	Weight %	North American Substance Hazard Class					
Glycerin	56-81-5	99-100	29 CFR 1910.1000 Air Contaminant. (as respirable mist)					

4. First-aid measures

Description of first aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. **Skin Contact** Wash off with soap and plenty of water. **Inhalation** Move to fresh air. **Ingestion** Clean mouth with water and afterwards drink plenty of water.

Most important symptoms and affects, both acute and delayed

Eyes Not expected to pose health issues for the eye.

Skin Based on available data, not, or only slightly irritating. Inhalation Excessive inhalation of mist may result in respiratory irritation. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to glycerin.

Ingestion Health injuries are not known or expected under normal use. Large oral doses may result in gastrointestinal disturbance.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Flammable Properties

The product may ignite if exposed to heat or open flame.

Extinguishing media

Suitable Extinguishing Media Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO₂) Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

 Hazardous Combustion Products
 Thermal decomposition can lead to release of irritating gases and vapors, Acrolein, Carbon monoxide (CO), Carbon dioxide (CO2).

 Specific Hazards Arising from the Chemical
 None known.

 Sensitivity to mechanical impact
 No information available.

 Sensitivity to static discharge
 No information available.

Advice for fire-fighters

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



Health 1 Flammability 1 Stability and Reactivity 0 Physical hazard None known

6. Accidental release measures

Personal Precautions, Protective Equipment, and Emergency Procedures

Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Methods and Materials for Containment and Cleaning Up

Dam up. Soak up with inert absorbent material. Prevent product from entering drains. Pick up and transfer to properly labelled containers.

7. Handling and storage

Handling

Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Storage

Store at temperatures above 18°C / 64°F. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

8. Exposure controls/Personal protection

Exposure Limits

Components with workplace control parameters.

Chemical Name	ACGIH TLV	OSHA PEL	Mexico	NIOSH
Glycerin	TWA: 10 mg/m³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction	TWA: 10 mg/m³ (LMPE- PPT) mist	

Biological Limit Values

No biological limit values have been listed for the component(s) of this product.

Appropriate Engineering Controls General Hygiene Considerations	Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. However it is the duty of the user to verify this and follow given exposure limits at the workplace. Handle in accordance with good industrial hygiene and safety practice.
Personal Protective Equipment	
Eye/face Protection.	If exposed to airborne dust, appropriate safety glasses with side-shields or safety goggles are recommended.
Skin and Body Protection	Long sleeved clothing. Protective gloves.
Respiratory Protection	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.



9. Physical and chemical properties

Appearance
Physical State
Odor
Odor Threshold
рН

Flash Point Autoignition Temperature Boiling point Melting/Freezing Point Decomposition temperature Oxidizing Properties

Molecular Weight Water Solubility Evaporation Rate Vapor Pressure Vapor Density Specific Gravity / Relative Density Partition Coefficient (n-octanol/water)

Clear Colorless Liquid Odorless No information available No information available Approx. 199 °C / 390 °F 393 °C / 739 °F 290 °C / 554 °F 18 °C / 64 °F No information available No information available

92.09 g/mol Miscible No information available 1.0033 hPa @ 50°C No information available > 1.249 -1.76

10. Stability and reactivity

Stability Stable under normal conditions.

Possibility of Hazardous Reactions Hazardous polymerization does not occur.

Conditions to Avoid Extremes of temperature and direct sunlight.

Incompatible Materials Strong oxidizing agents.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Acrolein.

11. Toxicological information

Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.					
Chemical Name	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Glycerin	99-100	12600 mg/kg Rat	21900 mg/kg Rat	LC50 >2.75 mg/L Rat 4 hour		
Skin corrosion/irritation	Based on availab	le data, not, or only slightl	y irritating.			
Serious eye damage/eye irritation	Based on availab	le data, no evidence of se	erious eye damage / irrita	ation.		
Respiratory or skin sensitisation	Based on availab	le data, not expected to b	e a skin or respiratory s	ensitiser.		
Germ cell mutagenicity	There is no in vitr	o or in vivo data that indic	ates glycerol to have a	genotoxic potential.		
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.					
Reproductive toxicity	Based on availab	le data, no evidence of re	productive toxicity.			
STOT - single exposure	Based on availab	le data, the classification	criteria are not met. No	evidence of toxicity.		
STOT - repeated exposure Based on available data, the classification criteria are not met. Repeated oral exposure is gavage to glycerol does not induce adverse effects other than local irritation of gastro-intestinal tract. Glycerol inhalation exposure, irritant effects have been ot 662 mg/m ³ . At very high exposure levels glycerol mist may be injurious to the k (Campanacci 1965/Ex. 1-1047). NIOSH (Ex. 8-47) states that, at high concentre exposure may cause hemolysis, hemoglobinuria, and renal failure. No other tar involvement was identified.						
Aspiration hazard	Based on availab	le data, no known aspirati	ion hazard.			

Potential health effects

Not expected to pose health issues for the eye.
Based on available data, not, or only slightly irritating.
Excessive inhalation of mist may result in respiratory irritation. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to glycerin.
Health injuries are not known or expected under normal use. Large oral doses may result in gastrointestinal disturbance.

12. Ecological information

<u>Ecotoxicity</u> Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.

Chemical Name	Fresh Water Algae	Acute Fish Toxicity	Daphnia (Water flea)	Effects on micro-organisms	Other
Glycerin		LC50: 96h 51 - 57mL/L (Oncorhynchus mykiss) static	EC50: 24h 500 mg/L (Daphnia magna)		

Chemical Name	log Kow	BCF
Glycerin	-1.76	

Persistence/Degradability Mobility

Readily biodegradable Miscible with water.

PBT and vPvB assessment

Based on the very low log Kow of -1.76, glycerol is not expected to bioaccumulate significantly. Nothing specific known.

Other adverse effects

13. Disposal considerations

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

Waste Disposal Methods

Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Should not be released into the environment.

14. Transport information

Domestic transport regulations (USA)

DOT Not regulated

Domestic transport regulations (Canada)

TDG Not regulated

Domestic transport regulations (Mexico)

MEX Not regulated

International transport regulations

ICAO Not regulated IATA Not regulated IMDG/IMO Not regulated

15. Regulatory information

International Inventories

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	ICL	EINECS	ELINCS	AICS
Glycerin	Yes	Yes	No	No	Yes 200-289-5	No	Yes

Chemical Name	ENCS ISHL	CHINA	PICCS	KECL	Taiwan	Turkey	NZIoC
Glycerin	Yes (7)-338 (2)-242	Yes	Yes	Yes Annex 1 (KE-29297)	Yes	Yes 200-289-5	Yes

<u>USA</u>

Federal Regulations

Ozone Depleting Substances:

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

CERCLA/SARA 103-302

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

SARA 311/312 Hazardous Categorization

Refer to the OSHA hazard classification(s) provided in section 2 of this SDS.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)

This product is not known to contain any HAPS.

State Regulations

California Proposition 65

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would require a warning under the statute.

State Right-to-Know

Component Information.

Chemical Name	Weight %	Massachusetts	Minnesota	New Jersey	Pennsylvania
Glycerin	99-100	Yes	Yes	Yes 3319	Yes

Canada

(NPRI) Canadian National Pollutant Release Inventory Component Information

Chemical Name	Weight %	NPRI
Glycerin	99-100	Part 4 Substance

	16. Other information
Prepared By: Original Preparation Date: Revision Date: Revision Number: Reason for revision:	ADM Fuels & Industrials 18-Jun-2009 19-Feb-2018 2 Product name / code has changed. This version replaces all previous versions.
Revision Number: 2	

ICAO - International Civil Aviation Organisation ICL - In Commerce List (Canada) IDLH - Immediately Dangerous to Life or Health IMDG - International Maritime Dangerous Goods Code IMO - International Maritime Organization IUB - International Union of Biochemistry and Molecular Biology KECL - Korean Existing and Evaluated Chemical Substances (Korea) Known - Known Carcinogen LC50 - Lethal concentration that produces fatalities in 50% of a given test population LD50 - Median lethal dose of a given test population Marpol - International Convention for the Prevention of Pollution From Ships MEPC - Marine Environment Protection Committee MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported MEXICO - Mexico Occupational Exposure Limits NDSL - Non Domestic Substances List (Canada) NFPA - National Fire Protection Association NIOSH - National Institute of Occupational Safety and Health NOAEL - No Observed Adverse Effect Level NTP - National Toxicology Program NZIOC - New Zealand Inventory of Chemicals (New Zealand) OECD - Organisation for Economic Co-operation and Development OSHA - Occupational Safety & Health Administration OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits PICCS - Inventory of Chemicals and Chemical Substances (Philippines) PNEC - Predicted No-Effect Concentration Present - Carcinogen or potential carcinogen to be identified under OSHA's Hazard Communication Standard Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen SEN - Sensitizer notation. May reflect risk of dermal and/or inhalation sensitization (consult ACGIH documentation). Skin notation - Potential for cutaneous absorbtion STEL - Short Term Exposure Limit: Concentrations that should not be exceeded except for short periods of time (usually 15-minutes) STOT - Specific Target Organ Toxicity STV - Short Term Value (same as STEL) TDG - Transportation of Dangerous Goods (Transport Canada) TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA) TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours) Under Consideration - Under Consideration by the National Toxicology Program vPvB - Very Persistent and Very Bioaccumulative

WHMIS - Workplace Hazardous Materials Information System

Prepared By: Graco, Inc.

This Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this Data Sheet which we have received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this Data Sheet may not be adequate for all individuals and/or situations. It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

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