



SAFETY DATA SHEET

SECTION 1: Product and Company Identification

G56

Product type: MANUAL TRANSMISSION GEAR OIL; Do not mist

Application: LUBRICANT

Supplier/Manufacturer: **Lubrication Specialties Inc.**
3975 Morrow Meadows Drive
Mount Gilead, OH 43338
US Phone: (419) 947-2647
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Emergency Telephone number:

Within USA and Canada: ChemTel, 24 hrs. +1 (800) 255-3924

Outside USA and Canada:* +1 (703) 741-5970

*Collect calls accepted 24/7

SECTION 2: Hazards Identification

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H317 - May cause an allergic skin reaction

- May damage fertility

GHS Precautionary Statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/eye protection/face protection.

P302+352 - IF ON SKIN: Wash with soap and water.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P308+313 - IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

SECTION 3: Composition/Information on Ingredients

<u>Ingredient Name</u>	<u>% (Avg)</u>	<u>CAS Number</u>
Non-Hazardous Materials	90-99%	
Proprietary Materials	<5%	
Pentaerythritol polyolester	<1-5%	67762-53-2
Benzotriazole methanamine derivative	<1%	94270-86-7
Trimethylolpropane Tripelargonate	<1%	126-57-8
Mineral Oil		Mixture
Phenol, 4-dodecyl	<0.1%	104-43-8
Ethylene glycol	<0.05%	107-21-1

ANY CONCENTRATION SHOWN AS A RANGE IS TO PROTECT CONFIDENTIALITY OR IS DUE TO BATCH VARIATION

SECTION 4: First Aid Measures

Eyes:	Immediately flush with gentle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. Get medical attention if irritation develops.
Skin:	Wash affected area with soap and water. If itching or redness develops, seek medical attention. Contaminated clothing should be removed immediately and washed before reuse. Contaminated shoes should be discarded.
Inhalation:	Move the person to fresh air. If breathing becomes difficult, contact a physician.
Ingestion:	Do not induce vomiting. If large amounts were swallowed, give water to rinse mouth, give water to drink, and get medical attention if you feel unwell.
Most important symptoms/effects, Acute and delayed:	
Skin contact:	Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations.
Ingestion:	Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations.
Inhalation:	Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations.
Eye Contact:	No specific Data
Potential acute health effects:	Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation (see section 11).
Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatment:	None
Protection of First-Aiders:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SECTION 5: Firefighting Measures

Flash Point:	See Section 9
Extinguishing Media:	Water spray, dry chemical, alcohol foam, or carbon dioxide.
Unsuitable extinguishing media:	Water jet.
Special Protective Equipment for firefighters:	Self-contained breathing apparatus and protective clothing when fighting any chemical fire.
Unusual Fire and Explosion Hazards:	In case of fire, containers may explode from internal pressure. Cool with water. Decomposition products may include NO _x , hydrogen sulfide, CO, and CO ₂ .
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental Release Measures

Personal Precautions:	Avoid contact with skin and eyes. Product is slippery. Avoid falls. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas
Environmental precautions:	P273: Avoid release to the environment Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater. Dispose of absorbed material in accordance with local, state and federal regulations.
Methods for containment/ Cleaning up:	Take up with absorbent material (e.g. vermiculite, general purpose binder). Dispose of absorbed material in accordance with local, state, and federal regulations.

SECTION 7: Handling and Storage

Handling:	P261: Avoid breathing mists of product P262: Do not get in eyes, on skin, or on clothing P264: Wash thoroughly after handling P280: Wear protective gloves/eye protection Handle with care and avoid spillage on the floor (slippage). Do not cut, weld, drill, grind, braze, or solder container. Avoid exposure during pregnancy.
Storage:	P402+404: Store in a dry place. Store in a closed container P403+233: Store in a well-ventilated place. Keep container tightly closed Protect from moisture. Do not store together with acids. Keep out of direct sunlight Keep away from sources of ignition.
General Hygiene Practices:	Eating drinking and smoking should be prohibited in areas where this material is handled, stored and processed
Special Packaging Requirements:	None
Incompatible Materials:	Strong oxidizing and reducing agents.

SECTION 8: Exposure Controls/Personal Protection

Occupational exposure limits:

Ingredient	CAS#	Exposure limits
Mineral Oil	Mixture	OSHA TWA: 5 mg/m ³ ACGIH TWA: 5 mg/m ³
Ethylene glycol	107-21-1	ACGIH CEIL: 100mg/m ³ OSHA CEIL: 50ppm OSHA CEIL: 125 mg/m ³

Personal Protective Equipment

Hands:	Use impervious gloves.
Eyes:	Wear safety glasses with side shields.
Skin:	Wear protective clothing, wash hands thoroughly after handling.
Respiratory:	Respiratory protection is recommended if ventilation is limited.

Appropriate Engineering

Controls: Good ventilation sufficient to control worker exposure to airborne contaminants

Environmental exposure

Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation

Other measures:

Have access to an eye wash station, take recovery periods for skin regeneration. Preventative skin protection (barrier creams/ointments) is recommended.

SECTION 9: Physical and Chemical Properties

Appearance

Physical State:	Liquid
Color:	Amber
Odor:	Petroleum-like
Odor threshold:	Not available
pH:	Not available
Melting point:	Not determined
Boiling point:	Not available
Flash point:	>329°F (165°C)
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive (flammable) limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	.853
Solubility:	Not available
Partition coefficient: n-	

Octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: 18.7 cST @ 100°C
Volatility: Not available
VOC (w/w): Not available

SECTION 10: Stability and reactivity

Reactivity: No specific test data available
Chemical Stability: Product is stable under ordinary conditions of use and storage.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Exposure to extreme heat, sources of ignition.
Incompatible Materials: Strong oxidizers and reducers.
Hazardous Decomposition Products: NO_x, CO_x, Hydrogen sulfides

SECTION 11: Toxicological Information

Likely Routes of Exposure: Dermal, eye, inhalation, ingestion

Acute Toxicity

<u>Ingredient</u>	<u>Result</u>	<u>Species</u>	<u>Dose/ATE</u>	<u>Comments</u>
Pentaerythritol polyol ester	LD50 Inhalation	-	11 mg/l/4h	vapor
	LD50 Inhalation	-	4.06 mg/l/4h	Dust/Mist
Mineral Oil	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LC50 Inhalation	Rat	5000 mg/m ³ /4hr	-
Ethylene Glycol	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

Short Term exposure:

Potential immediate Effects: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation. Ingestion may cause gastrointestinal irritation and diarrhea.
Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin.
Serious eye damage/ eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant.
Respiratory or skin sensitization: May cause an allergic skin reaction.

Long Term exposure:

Potential Immediate Effects: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.
Carcinogenicity: Shall not be classified as carcinogenic.

Conclusion/Summary:

Adverse symptoms may include the following: This product contains a component which caused organ effects (adrenal, thyroid, liver, ovary, testes, and bone marrow) and blood cell formation effects when given orally to rats at high, repeated daily doses. It also caused adverse reproductive effects. When pregnant rats orally were given high, repeated daily doses of this compound, they gave birth to pups with cleft palate and skeletal malformations.

Ethylene glycol induces developmental and reproductive effects in rats and mice.

Exposure to ethylene glycol is associated with effects in liver, kidney, ureter and bladder.

SECTION 12: Ecological Information

Avoid exposing to the environment, no specific aquatic data available.

SECTION 13: Disposal Considerations

Disposal methods: Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority. Waste should not be disposed of untreated into the sewer. Empty containers may retain some product residues.

SECTION 14: Transportation Information

US DOT, IATA/ICAO, and IMDG/IMO Regulations (Land, Air and Marine Transport):

Proper Shipping Name:	Not regulated.
Hazard Class:	Not regulated.
UN Number:	Not regulated.
Packing Group:	Not regulated.
Label Required:	Not regulated.
Other Information:	Not regulated.

SECTION 15: Regulatory Information

No information provided.

SECTION 16: Other Information

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