

SECTION 1: PRODUCT IDENTIFICATION

Product Name	GL4 90
Product Code #	2840B
CAS #	Not applicable for mixtures
Manufacturer	Royal Mfg Co, LP
Synonym	Not applicable
Chemical Name	Not applicable
Chemical Formula	Not applicable
Trade Secret	No
Address	516 S. 25th West Ave. Tulsa, OK 74127
Phone	(918) 584-2671
Emergency Contact	CHEMTREC (24 hour Emergency Telephone), call: 1-800-424-9300 International CHEMTREC, call: 1-800-255-3924
Recommended Use	Gear Oil
Restrictions on Use	This product must not be used in applications other than recommended in Section 1 without taking the advice from supplier/manufacturer.

SECTION 2: HAZARD(S) IDENTIFICATION

Classifications:	Aquatic Hazard – Acute: Category 3 Aquatic Hazard – Long-term: Category 4
Pictograms:	None
Signal Word:	None
Hazard Statements:	Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.
Precautionary Statements:	P101: If medical advice is needed have product container or label at hand P102: Keep out of reach of children P103: Read Label before use P210: Keep away from Heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking. P211: So not spray on an open flame or other ignition source. P232: Protect from Moisture. P233: Keep container tightly closed P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection P404: Store in a closed container
Percent of the mixture consisting of ingredient(s) of unknown toxicity:	None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Designation	CAS No.	% of Comp.
Distillates (Petroleum), Solvent-Dewaxed heavy Paraffinic	64742-65-0	50 - 75%
Mineral Oil	64742-54-7	25 - 50%
Phosphoric acid esters, amine salt	67763-14-8	< 1.0%
Boric Acid	10043-35-3	< 0.1%

SECTION 4: FIRST AID MEASURES

Eyes:	Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
Skin:	Immediately remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask type resuscitator. Call a physician immediately.
Ingestion:	Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Fire Hazard:	No
Flash Point °C (°F):	> 93.0° (199.4°)
Flammable Limits:	LOWER: Not determined UPPER: Not determined
Extinguishing Media:	Water Mist Foam Dry Powder CO2
Special protective Equipment and firefighting procedures:	Not determined
Unusual Fire & Explosion:	Not determined

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged container or spilled material unless wearing appropriate protective clothing/equipment. Ventilate the closed area.
Spills / Leaks:	Isolate the spill/leak area in all directions for about 50 meters (150 ft) for liquids and about 25 meters (75 ft) for solids and semi-solids. Eliminate all ignition sources (no smoking, flares, sparks/flames in close vicinity). Keep unauthorized persons away and ventilate closed space before entering

SECTION 7: HANDLING & STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and prompt removal of material from eyes skin and clothing.
Storage:	Store in a sealed container in a cool, dry environment.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:	
OSHA Permissible Exposure Limits (PELs) :	5 mg/m ³
Threshold Limit Values (TLVs):	10 mg/m ³



Engineering Controls:

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required

Personal Protective Equipment:

Face: The use of face protection is not normally required; however, good industrial hygiene practice suggests the use of eye protection that meets or exceeds ANSI Z.87.1 whenever working with chemicals.

Eyes: Safety Glasses

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile

Respiratory: Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator.

Pictograms:



Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber Liquid	Upper Flammability/Explosive Limit:	Not determined
Odor:	Petroleum	Lower Flammability/Explosive Limit:	Not determined
Odor Threshold:	Not determined	Vapor Pressure:	Not determined
pH:	Not determined	Vapor Density:	Not determined
Melting Point °C (°F):	Not determined	Vapor Temperature °C (°F):	Not determined
Freezing Point °C (°F):	Not determined	Relative Density/Specific Gravity:	0.8900
Pour Point °C (°F):	-20.0° (-4.0 °)	Solubility:	Not Water Soluble
Boiling Range:	N/A	Partition Coefficient:	Not determined
Flash Point °C (°F):	> 93.0° (199.4°)	Auto-ignition temperature:	Not determined
Flash Point Method:	ASTM D92	Decomposition temperature:	Not determined
Evaporation Rate:	Not determined	Viscosity (cSt):	220.00 @ 40° C
Flammability:	None	VOC Content:	N/A
		VOC Less Water & Exempts:	N/A

SECTION 10: STABILITY AND REACTIVITY

Chemical Reactivity:	Not determined
Chemical Stability:	Stable under normal ambient temperature and conditions.
Conditions to Avoid:	Extreme temperature and direct sunlight/heat/flame
Materials to Avoid:	Strong oxidizing agents
Hazardous Decomposition:	Not expected

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation

Description of effects from short- and long-term exposure:

Not known

Description of symptoms:



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Not known

Measure of toxicity:

Not known

Ingestion

Description of effects from short- and long-term exposure:

Not known

Description of symptoms:

May cause nausea and vomiting.

Measure of toxicity:

Not known

Eyes

Description of effects from short- and long-term exposure:

Not known

Description of symptoms:

Contact may cause eye irritation.

Measure of toxicity:

Not known

Skin

Description of effects from short- and long-term exposure:

Not known

Description of symptoms:

Prolonged or repeated skin contact may cause irritation.

Measure of toxicity:

Not known

Carcinogens listing:

NTP: No

IARC: No

OSHA: No

GHS: No

Chronic Toxicity: No

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available

Biodegradability: No data available

Bioaccumulation: No data available

SECTION 13: DISPOSAL CONSIDERATION

Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Regulations may vary by location.

SECTION 14 : TRANSPORT INFORMATION

UN Number: Not regulated in transportation by DOT/IMO/IATA. Not classified as dangerous in the meaning of transport regulation.

Proper Shipping Name: Multi-Purpose GL-4 SAE 90

Pictograms:

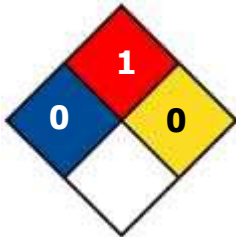


SECTION 15: REGULATORY INFORMATION

OSHA Regulated Hazard:	No	
DOT Regulated:	No	
E C Classification:	Non-applicable	
TSCA Status:	In compliance with TSCA inventory requirements for commercial purposes	
SARA 312 Regulated Chemical(s):	No	
SARA 313 Regulated Chemical(s):	No	
EPA Registration Number:	Non-applicable	
California Prop. 65:	Boric Acid	0.017694%
	Toluene	0.010473%
	Benzene	0.000001%
PA Right to know Chemical(s):	None known	
NJ Right to know Chemical(s):	None known	
Additional State Regulations:	None known	
Canada:	Non-applicable	

SECTION 16: OTHER INFORMATION

NFPA



HMIS

GL4 90	
HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

The above Information is based on the present state of our knowledge of the product at the time of publication. No warranty is implied with respect to the quality or the specification of the product and the user must satisfy themselves that the product is entirely suitable for their purposes.

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End of SDS

