## **Material Safety Data Sheet**

Prepared according to 29 CFR 1910.1200

## 1. Chemical Product and Company Identification

American Refining Group, Inc. 77 North Kendall Avenue Bradford, PA 16701 USA

Tel: (814) 368.1200 www.amref.com



**Product Name** Multi-Purpose GL-4 SAE 80W-90 Gear Oil

Product Code 7729

**CAS Number** Not applicable for mixtures

Generic Chemical Name Petroleum distillate

**Product Type** Mixture

**Transportation Emergency Phone No.** Chemtrec: 1-800-424-9300 (24 HRS)

ARG Emergency Phone No. 814-368-1297 (24 HRS)
MSDS E-Mail msds@amref.com

### 2. Hazards Identification

**Appearance** Green

Odor Petroleum Oil Signal Word WARNING!

May cause allergic skin reaction

May cause skin irritation May cause eye irritation

May cause respiratory tract irritation

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200)

Route of Exposure

**Precautions** 

**Inhalation** Avoid breathing dust/fume/gas/mist/vapors/spray. Keep container

tightly closed. Use only with adequate ventilation.

Eyes Avoid contact with eyes. Wash thoroughly after handling.

Skin Avoid contact with skin and clothing. Wash thoroughly after

handling.

Dermal

**Medical Conditions Aggravated by** 

Exposure

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this

product

**Chronic Effects**See Section 11 for complete health hazard information **Environmental Effects**See Section 12 for complete ecological information

## 3. Composition / Information on Ingredients

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CAS No.	Component	Percent
64742-01-4	Residual oils (petroleum), solvent refined	50-60
64741-88-4	petroleum distillates, solvent-refined heavy paraffinic	30-40
Confidential	olefin sulfide	1-2

Component Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Mineral Oil (See Section 8)

4. First Aid Measures		
Eyes	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the	
Skin	upper and lower eyelids. Get medical attention immediately. In case of contact, immediately flush skin with plenty of water for at	
	least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Inhalation	Get medical attention immediately.  Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory errors occurs, provide artificial respiration	
	irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.	
Ingestion	DO NOT INDUCE VOMITING. If conscious, rinse out mouth with water. Get medical attention immediately.	
Note to Physicians	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
	5. Fire Fighting Measures	

## Flammable Properties

Not available

## **Extinguishing Media**

Use dry chemical, CO<sub>2</sub>, water spray (FOG) or foam

## **Specific Hazards Arising from Chemical**

Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposition products may include the following materials: Carbon dioxide and Carbon monoxide.

## **Protective Equipment and Precautions for Firefighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental Release Measures

## **Personal Precautions**

### 6. Accidental Release Measures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## **Environmental Precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

## **Methods for Containment**

Stop leak if without risk.

## **Methods for Cleanup**

Move containers from spill area. Approach release from upwind. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and Storage

## **Handling Procedures**

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Use non-sparking tools.

## **Shipping and Storing Procedures**

Store in accordance with local regulations. Store in a segregated and approved area. Keep in the original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials. Do not store in unlabeled containers. Store and use away from heat, sparks, open flame or any other ignition source. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers that retain product residue may be hazardous. Do not reuse container.

## 8. Exposure Controls / Personal Protection

# **Component Exposure Limits**

Oil Mist (mineral)

 $5 \text{ mg/m}^3$  $10 \text{ mg/m}^3$ **ACGIHTLV:** TWA: N/A ppm TWA: STEL: N/A ppm STEL:  $5 \text{ mg/m}^3$ N/A mg/m<sup>3</sup> **OSHA PEL:** TWA: N/A ppm TWA STEL: N/A ppm STEL:  $5 \text{ mg/m}^3$  $10 \text{ mg/m}^3$ N/A ppm TWA STEL: N/A ppm **NIOSH REL:** TWA: STEL:

N/A signifies not available

**Eye/Face Protection** 

Engineering Controls Material should be handled in enclosed vessels and equipment. Use

only in adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborna conteminants below any recommended or statutory limits.

airborne contaminants below any recommended or statutory limits.

Chemical goggles or face shield.

**Skin Protection** Chemical resistant, impervious gloves complying with an approved

standard should be worn at all times. Coveralls, apron, and boots as

necessary to minimize contact.

**Respiratory Protection** Use a properly fitted, air-purifying or air-fed respirator complying with

## 8. Exposure Controls / Personal Protection

an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure

levels.

**General Hygiene** Wash hands, forearms and face thoroughly after handling chemical

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove

potentially contaminated clothing.

## **Physical and Chemical Properties**

Color	Green	Vapor Pressure (mm Hg	0
		at 20°C)	
Odor	Petroleum Oil	Water Soluble	No
Physical State	Liquid	Specific Gravity (g/cc)	.885
Flash Point (T)	450	Density (lbs/gal)	7.38
Boiling Point (T)	>625	рН	Not available

## 10. Chemical Stability & Reactivity Information

**Stability** Stable under normal conditions

**Polymerization** No polymerization

**Incompatibility** Strong acids and oxidizing materials

**Conditions to Avoid** High temperatures

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products **Hazardous Decomposition** 

of incomplete combustion. **Products** 

### 11. Toxicological Information

**Acute Exposure** 

May cause respiratory tract irritation. If material is misted or if vapors are **Respiratory Irritation** 

generated from heating, exposure may cause irritation of mucous membranes

and the upper respiratory tract.

**Eve Irritation** May cause eye irritation. Vapors formed from heating may cause eye irritation.

**Skin Irritation** May cause skin irritation. Prolonged or repeated direct exposure to the skin

may result in symptoms of irritation and redness, dermatitis or oil acne.

May cause skin sensitization. Based on data from components or similar Sensitization

materials.

**Component Analysis – LD50 / LC50** 

**Acute Toxicity Estimate (ATE) Values for Product: Inhalation LC50 Rat** 

**Oral LD50 Rat** 

>21 mg/L 1 HR

>5000 mg/kg

### 11. Toxicological Information

**Dermal LD50 Rabbit** >4500 mg/kg

**Chronic Exposure** 

**Target Organ Effects** No data available to indicate product or components present at greater than 1%

are chronic health hazards.

Carcinogenicity This product contains mineral oils which are considered to be severely refined

and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP

346 or Modified Ames test.

**Mutagenicity** No data available to indicate product or any components present at greater than

.1% are mutagenic or genotoxic.

**Reproductive Toxicity**No data available to indicate product or any components present at greater than

.1% are a reproductive toxin.

**Teratogenicity** No data available to indicate product or any components contained at greater

than .1% may cause birth defects.

## 12. Ecological Information

## Component Analysis- Ecotoxicity - Aquatic Life

64742-01-4 & 64741-88-4

**Duration/Test/Species** Concentration/Conditions

96-h/LL50/Trout >1000 mg/L 7-d/LL50/Trout >1000 mg/L

72-h/E<sub>b</sub>L50/Scenedesmus subspicatus >50% of WAF

21-d/EL50/Daphnia Magna >1000 mg/L

**Acute Toxicity** Lubricating oil basestocks are not acutely toxic to freshwater fish or

freshwater invertebrates. Lubricating oil basestocks are not likely to produce

adverse effects on the growth of algae.

Chronic Toxicity Lubricating oil basestocks are not expected to cause chronic toxicity in

aquatic invertebrates.

**Degradability** This product is inherently biodegradable according to the OECD definition.

**Bioaccumulation** Not determined **Soil Mobility** Not determined

**Photodegradation** Rapid **Partition Coefficient (log K\_{ow})** >4

**Stability in Water** Stable to hydrolysis

## 13. Disposal Considerations

## **Disposal Instructions**

The generation of waste should be avoided or minimized wherever possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

## 14. Transportation Information

### 14. Transportation Information

Emergency Response Guide No. 128 North American Emergency Response

Guide Book

UN Number Shipping Name (technical name) Hazard Class Packing Group

U.S. DOT Not Regulated

Bulk

U.S. DOT Not Regulated

Non-Bulk

**SARA Section 313** 

## 15. Regulatory Information

SARA Extremely Hazardous
This product does not contain greater than 1% of any "extremely hazardous substances" listed pursuant to Title III of the Superfund

Amendments and Reauthorization Act of 1986 (SARA) Section 302 or

Section 304 as identified in 40 CFR Part 355, Appendix A and B.

This product does not contain greater than 1.0% of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR

Part 372.

SARA Section 311 & 312 Classifications Acute Hazard Yes

Chronic Hazard No

Fire Hazard No

**Reactivity Hazard** No

**CERCLA** This product does not contain any "hazardous substances" listed under the

Comprehensive Environmental Response, Compensation and Liability Act of

1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

California Prop 65 This product contains chemical(s) known to the state of California to cause

cancer and/or birth defects.

Clean Water Act / Oil

**Pollution Act** 

This product contains petroleum distillates and may be subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the

product into or leading to surface waters must be reported to the National

Response Center at 1-800-424-8802.

### **Global Chemical Inventories**

Inventory	Component
	All components
US TSCA	Present
EU	Present
Japan	Not available
Australia	Present
New Zealand	Not available
Canada	Present
Switzerland	Not available
Korea	Present

Inventory	Component
Philippines	Present
China	Present
Taiwan	Not available

16. Other Information			
US NFPA Ratings			
Health	Fire	Instability	
1	1	0	

## **HMIS Ratings**

Health	Fire	Physical Hazards
1	1	0

**Precautionary Labels** 

Signal Word WARNING!

May cause allergic skin reaction

May cause skin irritation May cause eye irritation

May cause respiratory tract irritation

**Preparation/Revision Date** 10/18/2012

**Revision Reason** Section 2: Hazard Identification

Section 11: Toxicological Information Section 12: Ecological Information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**