

1. PRODUCT AND COMPANY IDENTIFICATION**Product Name:** Industrial Gear Oil EP 460**Product Code:** 848**Chemical Name:** Petroleum Oil; Lube Oil, Petroleum hydrocarbon, Lubricant**Chemical Family:** Gear Oil**Recommended Use:** For passenger cars and heavy duty transmissions and final drives.**Manufacturer:** Scot Lubricants LLC**Emergency Telephone Numbers:** 484-619-1393

6 Horwith Drive

Information: 484-275-7990 8am-5pm EST M-F

Northampton, PA 18067

2. HAZARD IDENTIFICATION**This material is not considered hazardous by OSHA Hazard Communication Standard 29 CFR 1910.1200****Classification of the substance or mixture****Not Classified.****GHS label elements**

Signal word No Signal Word Not Hazardous

Hazard Statements No known significant effects or critical hazards

Precautionary statements

General Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention P273 Avoid release into the environment.

Response P391 Collect Spillage

Storage Not Applicable

Disposal P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Other Hazards

The mixture consists of substances capable of producing an aspiration hazard. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure, and even death.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Wt. Percent	Component	Synonym	CAS#
0 - 100	Highly refined petroleum lubricating oil	Lubricating oil base stock	64742-65-0
0 - 0.1	Zinc Dialkyl Dithiophosphate		68649-42-3

Component Related Regulatory Information

*Highly refined petroleum lubricating oil contains one or more CAS numbers listed as follows:

64741-88-4, 64742-52-5, 64742-54-7, 64742-55-8, 64742-65-0, 64742-57-0, 64742-01-4, 64742-62-7, 72623-88-7

4. FIRST AID MEASURES**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.**Eyes:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.**Skin:** 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. Get medical attention if irritation develops or persists.**Ingestion:** DO NOT INDUCE VOMITING. If conscious, rinse out mouth with water. Call POISON CENTER or seek

medical attention immediately.

Symptoms (Acute and delayed):

General: No known significant effects or critical hazards.

Inhalation: Over exposure may be irritating to the respiratory system.

Skin: Repeated or prolonged skin contact may cause irritation.

Eyes: Direct contact with the eyes is likely irritating.

Ingestion: May be fatal if swallowed and enters airways.

Chronic Symptoms: No known significant effects or critical hazards.

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

FLASHPOINT (METHOD): 329°F (165°C) Minimum COC

FLAMMABLE LIMITS: Not established

AUTO-IGNITION TEMP: Not available

CONDITIONS OF FLAMMABILITY: Can be made to burn. Does not ignite readily.

EXTINGUISHING MEDIA: Water spray, dry chemical, carbon dioxide (CO₂), regular foam.

HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion material may be toxic. Burning may product sulfur oxides, aldehydes, ketones, carbon monoxide and unidentified organic compounds.

HAZARD RATING

0= LEAST

1=SLIGHT

2=MODERATE

3=HIGH

4=EXTREME

NFPA 704 HAZARD IDENTIFICATION

HEALTH HAZARD (BLUE)

1

FIRE HAZARD (RED)

1

REACTIVITY (YELLOW)

0

SPECIFIC HAZARD (WHITE)

FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

FIRE AND EXPLOSION HAZARDS: Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact or static discharge.

6. ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **Section 8: EXPOSURE**

CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean spark-proof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

7. HANDLING AND STORAGE

HANDLING: Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating, this product, do not breathe vapor or mist. Use in a well-ventilated area. Avoid contact with eyes, skin clothing and shoes.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut weld, braze, solder, drill or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain residue and can be dangerous.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: For substances listed in Section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Exposure Controls

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personnel Protective Equipment: Protective goggles, Gloves



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure: Do not allow the product to be released into the environment.

Consumer Exposure: Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR: AMBER FLUID/PETROLEUM ODOR.

VAPOR PRESSURE: LESS THAN 0.1(mm Hg @ 68°F 20°C)

MOLECULAR WEIGHT: N/D

INITIAL BOILD POINT: 501°F (260.56°C) (MINIMUM)

SOLUBILITY IN WATER: INSOLUABLE

EVAPORATION RATE: N/D

SPECIFIC GRAVITY: 0.86 (WATER=1)

RELATIVE DENSITY: 0.86 g/cm³ AT 60°F (15.5°C)

FLASHPOINT: 329°F (165°C) (MINIMUM) CLEVELAND OPEN CUP

FLAMMABLE LIMITS IN AIR: LOWER: N/D UPPER: N/D

AUTO-IGNITION TEMPERATURES: N/D

MELTING POINT: N/D

BOILING RANGE: N/D

FREEZING/MELTING POINT: N/D

pH: N/A

OCTANOL/WATER COEFF: N.D.

ODOR THRESHOLD: N/D

VAPOR DENSITY: >1 (AIR =1)

FLAMABILITY: N/D

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures. Avoid sparks, or flame.

INCOMPATIBLE MATERIALS: Avoid oxidizing agents.

REACTIVITY: Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.

HAZARDOUS DECOMPOSITION: None under normal temperatures and pressures. Also see **Section 5: HAZARDOUS COMBUSTION PRODUCTS.**

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Skin, Eyes, Ingestion, and Inhalation.

ACUTE EFFECTS; May be harmful if swallowed. May irritate eyes and skin. May cause throat irritation, nausea, vomiting and diarrhea. Aspiration hazard. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

REPEATED DOSE EFFECTS: Prolonged or repeated inhalation of oil mist may cause oil pneumonia, lung tissue inflammation, and/or fibrous tissue formation. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

SENSITIZATION: Based on best current information, there is no known human sensitization associated with this product.

MUTAGENICITY: Experimental evidence suggests that this product does not cause mutagenesis.

CARCINOGENICITY: Based on best current information, there is no known carcinogenicity as regulated by OSHA; as categorized by ACGOH A1 or A2 substances; as categorized by IARC Group 1 Group 2A or Group 2B agents as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

REPRODUCTIVE TOXICITY: Based on best current information, there is no known reproductive toxicity associated with this product.

TERATOGENICITY: Based on best current information, there is no known teratogenicity associated with this product.

NEUROTOXICITY: High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches.

TOXICITY DATA:

Component Analysis – LD50/LC50

Zinc dialkyl dithiophosphate (68649-42-3)

Dermal LD50 Rat >2000 mg/kg

Oral LD50 Rat >2000 mg/kg

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data available.

PERSISTENCE/DEGRADABILITY – Not readily biodegradable.

BIOACCUMULATIVE POTENTIAL - No information available for this product.

MOBILITY IN ENVIRONMENT – Base oil component(s) – Low solubility and floats; expected to migrate from water to land.

OTHER ADVERSE EFFECTS – N/A

OCTANOL/WATER PARTITION COEFFICIENT – N/A

VOLATILE ORGANIC COMPOUNDS - Negligible

AQUATIC RELEASE - Advise authorities if product has entered or may enter watercourses or sewer drains.

13. DISPOSAL INFORMATION

DISPOSAL: Dispose in accordance with federal, state, provincial and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

USEPA WASTE CODES: This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it must be managed in accordance with 40 CFR Part 279. Processing, use or contamination by user may change the waste code(s) applicable to the disposal of these products.

14. TRANSPORTATION INFORMATION

DOT

PROPER SHIPPING NAME Petroleum Lubricating Oil – Not regulated as a hazardous material for Land Transport

HAZARD CLASS: Not regulated

Industrial Gear Oil EP 460 CODE: 848

ID NUMBER: Not regulated

LABEL REQUIRED: Not regulated

EMERGENCY RESPONSE GUIDE NUMBER: Not applicable. Reference North American Emergency Response Guidebook.

IATA: Not regulated

15. REGULATORY INFORMATION

U.S. Federal RegulationsUnited States inventory All components are listed or exempted.
(TSCA 8b)**SARA 302/304**

Composition/information on ingredients: No products were found

SARA 311/312

Classification Not Applicable

SARA 313

Form R- Reporting Requirements This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification This product does not contain any hazardous ingredients at or above regulated thresholds.

State Regulations**Massachusetts** None of the components are listed.**New Jersey** The following components are listed: Mineral Oil (Untreated and Mildly treated)**Pennsylvania** None of the components are listed.

16. OTHER INFORMATION

DATE ISSUED: February 2, 2015**SUPERSEDES:****REVISION NO.****REVISION INFORMATION:** GHS Compliance**SDS #:** CODE 848

**SCOT LUBRICANTS LLC
6 HORWITH DRIVE
NORTHAMPTON, PA 18067
484-275-7990**

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