



Graphenoil

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Version 1

Safety Data Sheet

SECTION 1. IDENTIFICATION

Product Identifier

Product Names Heavy Duty Motor Oil

Other means of identification

SDS #

Product Grades 10W30 CJ-4, 15W40 CJ-4

Recommended use of the chemical and restrictions on use

Recommended Use Engine oils

Details of the supplier of the safety data sheet

Supplier Address

Graphenoil
16310 Hollister St.
Houston, TX 77066

Emergency Telephone Number

Company Phone Number 1-832-699-9890
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

SECTION 2. HAZARDS IDENTIFICATION

Classification

Not Classified.

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

GHS Label Elements

Hazard pictograms	None Required		
Signal Word	None		
Appearance	Clear amber	Physical State Liquid	Odor Petroleum
Hazard statement	None Required		

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	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Dispose of contents/container in accordance with local, regional, national, and international regulations.
Hazards not otherwise classified (HNOC)	Defatting to the skin.

Potential Health Effects

Principal Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion

Acute Toxicity

Eyes	Eye contact may result in slight irritation and redness.
Skin	Substance minimally irritating upon direct contact.

Inhalation	Low hazard at standard temperatures and pressures. Inhalation of oil mist or fumes can cause irritation of the nose, throat and upper respiratory tract.
Ingestion	Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other	On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations.
Chronic Effects	Prolonged exposure may cause chronic effects.
Aggravated Medical Conditions	Personnel with pre-existing skin disorders should avoid contact with this product.
Environmental Hazard	See Section 12 for additional Ecological Information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Petroleum oil lubricant base stock with proprietary performance additives mixture.

Chemical Name	CAS No*	Weight-%*
Base Oil - Highly Refined Hydrotreated Heavy Paraffinic distillate	64742-54-7	70 – 80
Additive Mixture	Proprietary	5 – 15

This product does not contain known hazardous materials at the $\geq 1\%$ level or known carcinogens at the $\geq 0.1\%$ level as defined by 29 CFR 1910.1200.

* If Chemical Name/CAS No is "Proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Flush with large amounts of water for 15 minutes. Get medical attention if eye irritation develops or persists. If material is hot, treat for thermal burns and take victim to the hospital immediately.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical immediately if skin discoloration occurs.
Inhalation	This material is not expected to present an inhalation exposure at ambient conditions. Move the person to fresh air if necessary. Seek immediate medical attention if irritation, nausea, dizziness or unconsciousness occurs.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention or advice.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media

Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special hazards arising from the chemical

Fire Hazard	Not flammable but will support combustion.
Explosion Hazard	Product is not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.

Protective equipment and precautions for firefighters

Precautionary Measure Fire	Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.
Firefighting Instructions	Use water spray or fog for cooling exposed containers.
Protection During Firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products	Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.
Other Information	Refer to Section 9 for flammability properties.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For Non-Emergency Personnel	Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. If spilled, take caution, as material can cause surfaces to become very slippery.
For Emergency Responders	Equip clean-up crew with proper protection. Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.
Environmental Precautions	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Dike far ahead of liquid spill for later disposal. Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal.

Small Spills	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spills	Consider initial downwind evacuate for at least 300 meters (1000 feet). If tank, rail car or tank car is involved in a fire, isolate for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Do not pressure, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. See NFPA 30 and OSHA 1910.106 – flammable and combustible liquids.

Conditions for safe storage, including any incompatibilities

Store away from heat, sparks open flame, or strong oxidizing agents in closed and properly labeled containers. Empty containers retain product residue (liquid, and/or vapor) and can be dangerous.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Base Oil – Highly Refined Hydrotreated Heavy Paraffinic Distillate 64742-54-7	TWA: 5 mg/m ³ (mist) STEL: 10 mg/m ³ (mist)	TWA: 5 mg/m ³ (mist) STEL: none estab	TWA: 5 mg/m ³ (mist) STEL: 10 mg/m ³ (mist)

Exposure Controls

Appropriate 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.

Personal Protective Equipment

Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



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 Controls

Do not allow the product to be released into the environment.

Consumer Exposure Controls

Do not eat, drink or smoke during use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Appearance	Clear amber
Odor	Petroleum
Odor Threshold	Not determined

Property

pH	
Evaporation Rate	
Melting Point	
Boiling Point	
Flash Point	
Auto-ignition Temperature	
Decomposition Temperature	
Flammability (solid, gas)	
Lower Flammable Limit	
Upper Flammable Limit	
Vapor Pressure	
Relative Vapor Density at 20 °C	
Relative Density	
Specific Gravity	
Solubility	
Partition Coefficient: N-Octanol/Water	
Viscosity	
Viscosity, Kinematic	
Explosive Properties	
Explosion Data – Sensitivity to Mechanical Impact	
Explosion Data – Sensitivity to Static Discharge	

Values

Not determined
Not determined
Not determined
>280C (536F)
>226C (COC) (438F)
>320C (COC) (608F)
Not determined
Not determined
Not determined
Not determined
Not determined
Not determined
Not determined
0.87
Negligible
Not determined
Not determined
Not determined
Product is not explosive
Not expected to present an explosion hazard due to mechanical impact
Not expected to present an explosion hazard due to static discharge

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Does not occur.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Oxidizing agents and open flames.

Hazardous Decomposition Products

May include: Fumes, Smoke, Oxides of Phosphorus, Boron, Sulfur, Nitrogen, Carbon Dioxide, Carbon Monoxide, and other low molecular weight Hydrocarbons.

SECTION 11. TOXICOLOGICAL INFORMATION
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Information on Toxicological Effects**Substance Mixture**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Base Oil - Highly Refined Hydrotreated Heavy Paraffinic distillate 64742-54-7	>15000 mg/Kg (rat)	>5000 mg/Kg (rabbit)	2.18 mg/l (rat) 4h

Acute Toxicity**Product Information**

Test on similar materials show a low order of acute oral and dermal toxicity.

Acute Oral Effects

Test on similar materials indicates low order of acute toxicity.

Acute Inhalation Effects

Low acute toxicity expected on inhalation.

Skin Effects

Practically non-toxic if absorbed. Other similar highly refined products have not shown skin tumors in mouse skin painting studies.

Eye Irritation

Minimal irritation on contact. Eye irritation slightly or practically non-irritating base on similar products.

Chronic Toxicity

Prolonged exposure may cause chronic effects. On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations.

Carcinogenicity

Not considered a potential carcinogen base on IP346 DMSO of less than 3.0 wt%

Target Organ Effects

Respiratory system, Eyes, Skin.

Genotoxicity

This product is considered non-mutagenic and has negative potential for tumor development based on from Modified Ames Assay, with Mutagenic Index of less than 1.0.

SECTION 12. ECOLOGICAL INFORMATION

The information is based on data available for the material, the components of the material, and similar materials.

Ecotoxicity

If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

Mobility

Not available.

Persistence and Degradation

Not available.

Bioaccumulative potential

Not available.

Other adverse effects

Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material supplied.

Waste Treatment Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Consult the appropriate state, regional, or local regulations for additional requirements. The generation of waste should be avoided or minimized wherever possible.

Product waste Dispose of in accordance with local regulations. Keep this product out of sewers and waterways.

Contaminated Packaging Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

General Information Petroleum Lubricating oil - Not regulated.

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

Special Precautions for User Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

SARA Section 311/312 HazardClasses	Not Classified
Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

US State Regulations

None noted

Canadian Regulations

WHMIS Classification	Not Classified
Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability/Reactivity
	0	1	0
HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; * - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

Key to abbreviations:

OSHA = Occupational Safety and Health Administration
ACGIH= American Conference of Industrial Hygienists
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service Registry Number
cSt = Centistroke (mm²/s)
GHS = Global Harmonized System of Classification and Labeling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient
OEL = Occupational Exposure Limit
SDS = Safety Data Sheet
STEL = Short term exposure Limit
UN = United Nations
UN Number = United Nations Number, a four-digit number assigned by the United Nations Committee of Experts on the Transportation of Dangerous Goods

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Disclaimer

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

End of Safety Data Sheet