Safety Data Sheet

Issue Date: 21-Nov-2012 **Revision Date:** 30-Jun-2016 **Version** 1

SECTION 1. IDENTIFICATION

Product Identifier
Product Names Passenger Car Motor Oil – Full Synthetic – All Grades

Other means of identification
SDS #

Product Grades 0W20, 0W30, 0W40, 5W20, 5W30, 5W40, 10W30

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
Signal Word None
Appearance Clear brown **Physical State** Liquid **Odor** Petroleum
Hazard statement None

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.

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	75 – 95
Additive Mixture	Proprietary	5 – 25

This product does not contain known hazardous materials at the ≥ 1% level or known carcinogens at the ≥ 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

General Advice No specific first aid measures are required. Get medical attention if irritation develops and persists.

Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation develops and 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 attention immediately if skin discoloration occurs.

Inhalation This material is not expected to present an inhalation exposure at ambient conditions.

Ingestion Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical attention or advice.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing.

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 Measures 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	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

Methods and material for containment and cleaning up

Dike far ahead of liquid spill for later disposal. Pick up free liquid for recycle and/or disposal. Residual liquid and/or solid can be absorbed on inert material.

Large Spills	Consider initial downwind evacuate for at least 300 meters (1000 feet).
Fire	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

Protective Measures	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

Storage Conditions	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/m³ (mist) STEL: 10 mg/m³ (mist)	TWA: 5 mg/m³ (mist) STEL: none estab	TWA: 5 mg/m³ (mist) STEL: 10 mg/m³ (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. Wear respiratory protection for insufficient ventilation

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	Amber
Odor	Petroleum
Odor Threshold	Not determined

Property	**Values**
pH	Not determined
Evaporation Rate	Not determined
Melting Point	Not determined
Boiling Point	280C / 534F
Flash Point	400C (COC) / 750F
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Flammability (solid, gas)	Not determined
Lower Flammable Limit	Not determined
Upper Flammable Limit	Not determined
Vapor Pressure	Not determined
Relative Vapor Density at 20 °C	Not determined
Relative Density	Not determined
Specific Gravity	0.89 – 0.91
Solubility	Negligible
Partition Coefficient: N-Octanol/Water	Not determined
Viscosity	Not determined
Viscosity, Kinematic	50 mm^2/s @ 40C
Explosive Properties	Product is not explosive
Explosion Data – Sensitivity to Mechanical Impact	Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Sensitivity to Static Discharge	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 Hazardous polymerization does not occur.

Conditions to Avoid
Heat, flames and sparks.

Incompatible Materials
Oxidizing agents and open flames.

Hazardous Decomposition Products
Decomposition and combustion products may include: smoke, fumes, oxides of phosphorus, boron, sulfur, nitrogen, carbon dioxide, carbon monoxide, and other low molecular weight hydrocarbons.

SECTION 11. TOXICOLOGICAL INFORMATION

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
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 based 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 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.

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). Keep this product out of sewers and waterways. Consult the appropriate state, regional, or local regulations for additional requirements. The generation of waste should be avoided or minimized wherever possible.

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 Hazard Classes	Not Classified

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**
	1	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
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

of Chemicals Dangerous Goods
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods

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Product Numbers

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