



SAFETY DATA SHEET

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Full Synthetic Diesel Engine Oil 0W30, 0W40, 5W40		
COMMON NAME:	Full Synthetic Diesel Engine Oil		
CHEMICAL FORMULA:	Mixture		
CHEMICAL NAME:	Lubricating Oil		
CHEMICAL FAMILY:	Hydrocarbon		
	Boss Lubricants		Emergency Phone Number(s)
	112, 6303 30 St. SE		Business: (800) 844-9457
	Calgary, AB		Fax #: (403) 279-2272
	T2C 1R4		CHEMTREC: +1 (800) 424-9300
			International: +01 (703) 527-3887

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Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not classified under GHS

Other hazards

Hazards not otherwise classified: Avoid prolonged or repeated contact with used motor oil. Used motor oil has been shown to cause skin cancer in laboratory animals.

Unknown acute toxicity (GHS-US)

Unknown Acute Toxicity (Gas): 24.987922 % of the mixture consists of ingredient(s) of unknown toxicity.

Unknown Acute Toxicity (Dust/Mist): 24.987922

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	GHS Classification
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	5 - 10	72623-87-1	Acute Tox. 4; H332 Acute Tox. 3; H331
Solvent-refined light paraffinic distillate	1 - 5	64741-89-5	Acute Tox. 4; H332 Acute Tox. 3; H331
Petroleum distillates, solvent-refined heavy paraffinic	1 - 5	64741-88-4	Not applicable
Solvent dewaxed light paraffinic distillate (petroleum)	1 - 5	64742-56-9	Acute Tox. 4; H332 Acute Tox. 3; H331





Section 4: FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.

Skin Contact: If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.

Inhalation: If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.

Ingestion: If material has been swallowed, do not induce vomiting. Get medical attention immediately.

Section 5: FIRE - FIGHTING MEASURES

FLASH POINT: 224°C (435.2°F) **AUTO IGNITION TEMP:** >260°C (>500°F)

FLAMMABLE LIMITS IN AIR	LOWER	UPPER
% BY VOLUME	N/A	N/A

EXTINGUISHING MEDIA: Use water spray to cool fire exposed surfaces and to protect personnel. Use foam, dry chemical or water spray (fog) to extinguish fire.

SPECIAL FIRE FIGHTING PROCEDURES: When fighting fires wear full turnout gear and self-contained breathing apparatus. Water may cause splattering. Material floats on water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic fumes gases or vapors may evolve on burning.

HAZARD RATINGS: NFPA 704: Health- 1 Fire- 1 Reactivity- 0

HMIS: Health- ___ Fire- ___ Reactivity- ___

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Measures: No health affects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

Environmental precautions: Remove from water surface by skimming or with suitable absorbents. Do not use dispersants. Avoid runoff into storm sewers and ditches that lead to waterways. Do not flush to sewer. Avoid runoff into storm sewers and ditches that lead to waterways.

Methods and material for containment and cleaning up

Methods for cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. {EMSFORM_06GHS_CLEAN}

Reference to other sections: Follow all protective equipment recommendations provided in Section 8.

Section 7: HANDLING AND STORAGE

HANDLING AND STORING: Store in closed container away from all ignition sources. Handling temperatures should not exceed 175°F (80°C). Wash thoroughly after handling. Do not store at temperatures exceeding 113°F (45° C). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Open containers carefully and only in well ventilated areas or use appropriate respiratory protection. Store in well ventilated area.

Section 8: EXPOSURE CONTROL - PERSONAL PROTECTION

Control parameters

Chemical Name	Occupational Exposure Limits	Value
Oil mist, mineral	OSHA PEL	5 mg/m ³
Oil mist, mineral	OSHA PEL	5 mg/m ³
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Distillates (petroleum), solvent-dewaxed light paraffinic	OSHA PEL	5 mg/m ³
Oil mist, mineral	OSHA PEL	5 mg/m ³
Oil mist, mineral	OSHA PEL	5 mg/m ³
None.	OSHA STEL	
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m ³
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m ³
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Distillates (petroleum), solvent-dewaxed light paraffinic	ACGIH TLV-TWA	5 mg/m ³
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m ³
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m ³
Oil mist, mineral	ACGIH STEL	10 mg/m ³
Oil mist, mineral	ACGIH STEL	10 mg/m ³
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Distillates (petroleum), solvent-dewaxed light paraffinic	ACGIH STEL	10 mg/m ³
Oil mist, mineral	ACGIH STEL	10 mg/m ³
Oil mist, mineral	ACGIH STEL	10 mg/m ³
None.	IDLH	
None.	OSHA PEL-Skin Notation	

Exposure controls

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory Protection Respiratory protection will be required when handling this product. Use respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: No special requirements under normal industrial use.

Skin Protection: Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Neoprene, Nitrile

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Amber liquid	ODOR:	Mild odor
BOILING POINT:	N/D	SPECIFIC GRAVITY (water=1):	0.8400 - 0.8700
VAPOR PRESSURE:	<0.20	VAPOR DENSITY (air=1):	N/D
SOLUBLE IN WATER:	Insoluble	EVAPORATION RATE (ether=1):	<1
pH:	N/D		

Section 10: STABILITY AND REACTIVITY

- STABILITY:** Stable under moderately elevated temperatures and pressures. See handling and storage section
- INCOMPATIBILITY:**
- CONDITIONS TO AVOID:** See handling and storage section.
- MATERIALS TO AVOID:** Acids, oxidizing agents.
- HAZARDOUS DECOMPOSITION PRODUCTS:** Smoke, carbon monoxide, aldehydes, hydrogen sulfide and alkyl mercaptans may be released. Under combustion conditions, oxides of the following elements will be formed: Magnesium, calcium, nitrogen, sulfur, and carbon.
- HAZARDOUS POLYMERIZATION:** Will not occur.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

- Ingestion Toxicity:** Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. Likely to be practically non-toxic by ingestion based on animal data.
- Skin Contact:** This material is likely to be slightly irritating to skin based on animal data. Can cause minor skin irritation, defatting, and dermatitis.
- Absorption:** Likely to be practically non-toxic based on animal data.
- Inhalation Toxicity:** No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
- Eye Contact:** This material is estimated to be non-irritating eyes (Draize score <15 [rabbits]). No hazard in normal industrial use.
- Sensitization:** Non-hazardous under Respiratory Sensitization category.
- Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
- Carcinogenicity:** Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.
- Reproductive and Developmental Toxicity:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
- Specific target organ Toxicity-Single exposure:** Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
- Specific target organ Toxicity-Repeated exposure:** Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.
- Long-Term (Chronic) Health Effects:** No data available.
- Aspiration toxicity:** Non-hazardous under Aspiration category.
- Other information:** No data available.
- Agents Classified by IARC Monographs**
- | | |
|----------------|---------------|
| Benzene | IARC Group 1 |
| Not applicable | IARC Group 2A |
| Vinyl acetate | IARC Group 2B |
- National Toxicity Program (NTP) Status**
- | | |
|----------------|---|
| Benzene | Known Human Carcinogen |
| Not applicable | Reasonably Anticipated to Be a Human Carcinogen |



Section 12: ECOLOGICAL INFORMATION

Toxicity

Acute Aquatic Ecotoxicity: Non-hazardous under Aquatic Acute Environment category.
Chronic Aquatic Ecotoxicity: Non-hazardous under Aquatic Chronic Environment category.
Persistence and degradability: Biodegrades slowly.
Bioaccumulative potential: Bioconcentration may occur.
Mobility in soil: This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.
Results of PBT and vPvB assessment: No data available.
Other adverse effects: Not determined

Section 13: DISPOSAL CONSIDERATION

Waste Treatment Methods

Disposal Methods: Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.
Waste Disposal Code(s)
Waste Description for Spent Product: Spent or discarded material is non-hazardous according to environmental regulations.
Contaminated packaging: Recycle containers whenever possible.

Section 14: TRANSPORTATION

Basic Description: Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

DOT	Proper Shipping Name:	No data available.
	UN Number:	No data available.
	Hazard Class:	No data available.
TDG	Packing Group:	No data available.
	Proper Shipping Name:	No data available.
	UN Number:	No data available.
IMDG	Hazard Class:	No data available.
	Packing Group:	No data available.
	Proper Shipping Name:	No data available.
IATA	UN Number:	No data available.
	Hazard Class:	No data available.
	Packing Group:	No data available.
	Marine Pollutant:	No data available.

Section 15: REGULATORY INFORMATION

Chemical Inventories

U.S. State Restrictions: Not applicable
Canadian WHMIS: Uncontrolled product according to WHMIS classification criteria.
Canadian Regulations: Uncontrolled product according to hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.



Chemical Name	Regulation	CAS #	%
None.	CERCLA		
None.	SARA 313		
None.	SARA EHS		
None.	TSCA 12b		

U.S. State Regulations

Chemical Name	Regulation	CAS #	%
None.	California Prop 65- Cancer		
None.	California Prop 65- Dev. Toxicity		
None.	California Prop 65- Reprod -fem		
None.	California Prop 65- Reprod-male		
Mineral oil, petroleum distillates, solvent-dewaxed light paraffinic	Massachusetts RTK List	64742-56-9	1 - 5
Mineral oil, petroleum distillates, solvent-refined light paraffinic	Massachusetts RTK List	64741-89-5	1 - 5
None.	New Jersey RTK List		
None.	Pennsylvania RTK List		
None.	Rhode Island RTK List		
None.	Minnesota Hazardous Substance List		

HMIS Ratings:

NFPA Ratings:

Health:	1	Health:	1
Fire:	1	Fire:	1
Reactivity:	0	Reactivity:	0
PPE:	B		

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 – Extreme

Section 16: OTHER INFORMATION

Revision Information: Update to product branding.

References

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CFR: Code of Federal Regulations

DOT: United States Department of Transportation

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transportation Association

IDLH: Immediately Dangerous to Life or Health

IMDG: International Maritime Dangerous Goods

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RTK: Right-to-Know

SARA: Superfund Amendments and Reauthorization Act

STEL: Short-term Exposure Limit

TLV: Threshold limit value

TSCA: Toxic Substances Control Act

TWA: Time weighted average

UN: United Nations

WHMIS: Workplace Hazardous Materials Information System



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