



# MOOREFLO SUPREME SDS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name on Label: MORFLO SUPREME

Other Identification: Viscosity 5-20, 5-30, 10-30

Use of the substance/mixture: Engine oil lubricant

Company name : MOORE OIL COMPANY  
4033 WEST CUSTER AVE  
MILWAUKEE, WI 53209 (414) 462-3200

Emergency number: (800) 424-9300 - CHEMTREC

## SECTION 2: Hazards identification

Classification of the substance or mixture: Not Classified

Label elements: P273 - Avoid release to the environment. 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.

Unknown acute toxicity (GHS-US): None of the mixture consists of ingredient(s) of unknown acute toxicity.

## SECTION 3: Composition/information on ingredients

Substance:

- (a) Chemical name - Not applicable
- (b) Common name and synonyms - Not applicable
- (c) CAS number and other unique identifiers - Not applicable
- (d) Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance - Not applicable

Mixture

NAME	PRODUCT IDENTIFIER	% BY WT	GHS – US CLASSIFICATION
Petroleum distillates, solvent dewaxed	64742-65-0	75.75-95	Not Classified
heavy paraffinic, Distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	0-17	Not Classified
Paraffin oils*	8012-95-1	0-5	Not Classified
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	0.45-0.891	Aquatic Chronic 3, H402

\*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

\*More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary, due to varying composition.

## SECTION 4: First aid measures

Description of first aid measures

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).
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First-aid measures after inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists
First-aid measures after skin contact	Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
First-aid measures after ingestion	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed:

General: No known significant effects or critical hazards.

Inhalation: Overexposure may be irritating to the respiratory system.

Skin Contact: Repeated or prolonged skin contact may cause irritation.

Eye Contact: Direct contact with the eyes is likely irritating.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed:

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: Fire-fighting measures

Extinguishing media

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 substance or mixture:

Fire Hazard: Not flammable but will support combustion.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions

Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons

## SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

For Non-Emergency Personnel Protective Equipment: Use appropriate personal protection equipment (PPE). Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel Protective Equipment: Equip cleanup crew with proper protection. Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.



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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:

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: 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.

Contact competent authorities after a spill.

## SECTION 7: Handling and storage

Precautions for safe handling:

Additional Hazards When Processed: Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities:

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

## SECTION 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.

Paraffin oils (8012-95-1)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (excluding metal working fluids, highly & severely refined-inhalable fraction)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen highly and severely refined, Suspected Human Carcinogen highly and severely refined
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	2500 mg/m <sup>3</sup>

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.



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**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

<b>Physical State</b>	Liquid
<b>Appearance</b>	Amber
<b>Odor</b>	Slight Hydrocarbon
<b>Odor Threshold</b>	Not available
<b>pH</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	280 °C (536 °F)
<b>Flash Point</b>	400 °C (COC) (752 °F)
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Lower Flammable Limit</b>	Not available
<b>Upper Flammable Limit</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Relative Vapor Density at 20 °C</b>	Not available
<b>Relative Density</b>	Not available
<b>Specific Gravity</b>	0.85
<b>Solubility</b>	Negligible
<b>Partition Coefficient: N-Octanol/Water</b>	Not available
<b>Viscosity</b>	Not available
<b>Viscosity, Kinematic</b>	50 mm <sup>2</sup> /s @ 40 °C
<b>Explosive Properties</b>	Product is not explosive
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	Not expected to present an explosion hazard due to mechanical impact
<b>Explosion Data – Sensitivity to Static Discharge</b>	Not expected to present an explosion hazard due to static discharge



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## SECTION 10: Stability and reactivity

Reactivity: Hazardous reactions will not occur under normal conditions.  
 Chemical stability: Stable under recommended handling and storage conditions (see section 7).  
 Possibility of hazardous reactions: Hazardous polymerization will not occur.  
 Conditions to avoid (e.g., static discharge, shock, or vibration): Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.  
 Incompatible materials: Strong acids, strong bases, strong oxidizers.  
 Hazardous decomposition products: Thermal decomposition generates carbon oxides (CO, CO<sub>2</sub>) and hydrocarbons.

## SECTION 11: Toxicological information

Information on Toxicological Effects - Product

Acute Toxicity: Not classified  
 LD50 and LC50 Data: Not available  
 Skin Corrosion/Irritation: Not classified  
 Eye Damage/Irritation: Not classified Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified Teratogenicity: Not classified  
 Carcinogenicity: Not classified  
 Specific Target Organ Toxicity (Repeated Exposure): Not classified  
 Reproductive Toxicity: Not classified  
 Specific Target Organ Toxicity (Single Exposure): Not classified  
 Aspiration Hazard: Not classified  
 Symptoms/Injuries After Inhalation: Overexposure may be irritating to the respiratory system.  
 Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause irritation.  
 Symptoms/Injuries After Eye Contact: Direct contact with the eyes is likely irritating. Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Chronic Symptoms: Not Classified

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<b>Paraffin oils (8012-95-1)</b>	
LC50 Inhalation Rat	2062 ppm/4h
ATE US (gases)	2,062.00 ppmV/4h
<b>Heavy paraffinic, Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)</b>	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2 g/kg
<b>Petroleum distillates, solvent dewaxed (64742-65-0)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
<b>Paraffin oils (8012-95-1)</b>	
IARC Group	1

## SECTION 12: Ecological information

Eco-toxicity (aquatic and terrestrial, where available): Ecology - General: Toxic to aquatic life.

<b>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)</b>	
LC50 Fish 1	1.0 - 5.0 mg/l (Exposure time: 96 h - Species:



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	Pimephales promelas [static])
EC50 Daphnia 1	1 - 1.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	10.0 - 35.0 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])
<b>Petroleum distillates, solvent dewaxed (64742-65-0)</b>	
EC50 Daphnia 1	> 1000 mg/L (Exposure time: 48 h – Species: Daphnia magna)
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
<b>Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and degradability: Not available

Bio-accumulative potential: Not available

Mobility in soil: Not available

Other adverse effects (such as hazardous to the ozone layer): Avoid release to the environment.

## SECTION 13: Disposal considerations

### Waste treatment methods

**Sewage Disposal Recommendations:** Do not empty into drains; dispose of this material and its container in a safe way. Do not empty into drains. Do not dispose of waste into sewer.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

## SECTION 14: Transport information

UN number: Not regulated for transport

UN proper shipping name: Not regulated for transport

Transport hazard class(es): Not regulated for transport

Packing group, if applicable: Not regulated for transport

Environmental hazards (e.g., Marine pollutant (Yes/No)): Not regulated for transport

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not regulated for transport

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises: Not regulated for transport

## SECTION 15: Regulatory information

### US Federal Regulations

<b>SARA Section 311/312 Hazard Classes</b>	Delayed (chronic) health hazard
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### US State Regulations

#### Paraffin oils (8012-95-1)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List



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## Canadian Regulations

WHMIS Classification	Not Classified
<b>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Paraffin oils (8012-95-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Petroleum distillates, solvent dewaxed (64742-65-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

## SECTION 16: Other information

The information in this Safety Sheet was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This safety sheet was prepared and is to be used only for this product. If the product is used as a component in another product, this safety sheet information may not be applicable.