



MOF D111/M SDS

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

Product Name on Label: MOOREFLO D111/M
 Other Identification: BULK, DRUM, PAIL
 Use of the substance/mixture: AUTOMATIC TRANSMISSION FLUID
 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

Mixture

NAME	PRODUCT IDENTIFIER	% BY WT	GHS – US CLASSIFICATION
Petroleum distillates, solvent dewaxed	64742-65-0	75-85	Not Classified
Additive Mixture (Proprietary)	Unknown	15-25	Not Classified

*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

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.
 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.
 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.
 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.



MOF D111/M SDS

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

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

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.

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:



MOF D111/M SDS

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.

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

Odor : Slight Hydrocarbon

pH : Not available

Melting Point : Not available

Flash Point : > 176 °C (COC) (350 °F)

Decomposition Temperature : Not available

Lower Flammable Limit : Not available

Vapor Pressure : Not available

Relative Density : Not available

Solubility : Negligible

Viscosity : Not available

Explosive Properties: Product is not explosive

Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact

Appearance : May be dyed

Odor Threshold : Not available

Evaporation Rate : Not available

Boiling Point : > 280 °C (536 °F)

Auto-ignition Temperature : Not available

Flammability (solid, gas) : Not available

Upper Flammable Limit : Not available

Relative Vapor Density at 20 °C : Not available

Specific Gravity : Not available

Partition Coefficient: N-Octanol/Water : Not available

Viscosity, Kinematic : > 40 mm²/s @ 40 °C



MOF D111/M SDS

Explosion Data – Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge

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 oxidizing agents.

Hazardous decomposition products: Hazardous decomposition products are not expected to form under normal storage.

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:

Petroleum distillates, solvent dewaxed (64742-65-0)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 5 g/kg

SECTION 12: Ecological information

Ecology - General: Toxic to aquatic life.

Petroleum distillates, solvent dewaxed (64742-65-0)	
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)

Persistence and degradability: Not available

Bio-accumulative potential: Not available

Mobility in soil: Not available



MOF D111/M SDS

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

SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
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US State Regulations – NONE

Canadian Regulations

Petroleum distillates, solvent dewaxed (64742-65-0)	
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

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.