



Dilmar Oil Company

Way Lubricant 68

Material Safety Data

Section I – Chemical Product and Company Information

Product Name: Dilmar Way Lubricant 68
 Product Code: DWL68
 Product Use: Lubricating oil for slide ways.
 Manufacturer: Dilmar Oil Co
 Telephone: (800) 922-5823
 Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

Preparation Date: 10/2011
 Revision Date:

Section II – Composition/Information On Ingredients

Cutting Oil			
Highly refined petroleum oils	Mixture	95-99 % weight	
Additives	Mixture	1-5 % weight	

Section III – Hazardous Ingredients/Identity Information

Appearance

Amber fluid, petroleum odor

Health Hazards:

May be harmful if swallowed. May irritate eyes and skin.

Potential Health Effects

Inhalation: Inhalation of vapors (generated at high temperatures only) or oil mist may cause mild irritation of the nose, throat, and respiratory tract.

Skin Contact: Lubricating oils are generally considered no more than minimally irritation to the skin. Prolonged and repeated contact may result in defatting and drying of the skin that may cause various skin disorders such as dermatitis, folliculitis or oil acne.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Low toxicity if swallowed.

Other Information: Used oil may contain harmful impurities.

Signs and Symptoms: Irritation as noted above.

Aggravated Medical Condition: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.

Additional Information: Refer to section 11

Section IV – First Aid Measures

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

Skin Contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

Eye Contact: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

Ingestion: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention.

Advice to Physician: In general, emesis induction is unnecessary in high viscosity, low volatility products such as oils and greases.

Section V – Fire Fighting Measures

Flash point Upper / lower: 199 °C / 390 °F (COC)

Extinguishing Media: Carbon dioxide, regular foam, dry chemical, or water spray, water fog. Water or foam may cause frothing.

Fire Fighting Instructions: Keep storage containers cool with water spray. A positive pressure, self contained breathing apparatus (SCBA) and full body protection equipment are required for fire emergencies.

Section VI – Accidental Release Measures

Protective Measures: May burn although not readily ignitable. Wear appropriate personal protective equipment when cleaning up spills. Refer to section 8.

Clean Up Methods: Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional Advice: Local authorities should be advised if significant spillages cannot be contained.

Section VII- Handling And Storage

Precautionary Measures: Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking.

Storage: Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closeable containers. Keep away from open flames and high temperatures.

Container Warnings: Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

Section VIII – Exposure Controls/Personal Protection

Occupational Exposure Limits

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

ACGIH: 5mg/m³ TWA (sampled by method that does not collect vapor) (related to Oil mist, mineral)
 10 mg/m³ STEL (sampled by method that does not collect vapor) (related to Oil mist, mineral)
 OSHA Final: 5 mg/m³ TWA (related to Oil mist, mineral)
 OSHA Vacated: 5 mg/m³ TWA (related to Oil mist, mineral)
 NIOSH: 5 mg/m³ TWA (related to Oil mist, mineral)
 10 mg/m³ STEL (related to Oil mist, mineral)

Mineral Oil

ACGIH: 5mg/m³ TWA (sampled by method that does not collect vapor) (related to Oil mist, mineral)
 10 mg/m³ STEL (sampled by method that does not collect vapor) (related to Oil mist, mineral)
 OSHA Final: 5 mg/m³ TWA (related to Oil mist, mineral)

Exposure Controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Personal Protective Equipment: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection: No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

Hand Protection: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Eye Protection: Wear safety glasses or full face shield if splashes are likely to occur.

Protective Clothing: Skin protection not ordinarily required beyond standard issue work clothes.

Section IX – Physical And Chemical Properties

PHYSICAL STATE,
 APPEARANCE Amber liquid
 ODOR: Petroleum odor
 ODOR THRESHOLD: Not available
 MOLECULAR WEIGHT: Not applicable
 SPECIFIC GRAVITY: 0.867 (Estimated) (water=1) (approximately)
 VAPOR DENSITY: >1 (Air = 1)
 VAPOR PRESSURE: less than 0.1 mm Hg at 68°F (20°C)

RELATIVE DENSITY:	0.867 g/cm ³ at 60°F (15.5°C)	
INITIAL BOILING POINT:	Not available	
BOILING RANGE	Not available	
FREEZING/MELTING POINT:	Not available	
pH:	Not applicable	
EVAPORATION RATE:	Not available	
SOLUBILITY IN WATER:	Insoluble	
FLASH POINT:	390°F (199°C) (minimum) Cleveland Open Cup	
FLAMMABILITY:	Not available	
FLAMMABLE LIMITS IN AIR:	LOWER: Not available	UPPER: Not available

Section X – Stability And Reactivity

Stability: Stable.

Incompatibility: Avoid oxidizing agents.

Reactivity: Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.

Conditions to Avoid: Avoid heat and open flames.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: None under normal temperatures and pressures.

Section XI – Toxicological Information

Component Analysis - LD50/LC50

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

Inhalation LC50 Rat 2.18 mg/L 4 h

Oral LD50 Rat >5000 mg/kg Dermal LD50 Rabbit >2000 mg/kg

Mineral Oil

Dermal LD50 Rabbit >5000 mg/kg

Oral LD50 Rat >5000 mg/kg

Olefin Sulfide

Dermal LD50 Rabbit >20000 mg/kg Oral LD50 Rat >5000 mg/kg

Alkyl phosphate

Dermal LD50 Rabbit >2000 mg/kg Oral LD50 Rat >3000 mg/kg

Alkyl dithio thiadiazole

Dermal LD50 Rabbit >20000 mg/kg Oral LD50 Rat >10000 mg/kg Inhalation LC50 Rat >2.75 mg/L 4 h

Long-chain alkyl amine

Oral LD50 Rat >10000 mg/kg

Section XII – Ecological Information

ECOTOXICITY:Material expected to be harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

Test & Species

96 Hr LC50 Oncorhynchus mykiss - >5000 mg/L

PERSISTENCE/Not readily biodegradable.

DEGRADABILITY:

BIOACCUMULATIVE No information available for the product.

POTENTIAL:

MOBILITY IN

ENVIRONMENTAL

MEDIA:

Base oil component(s) - Low solubility and floats; expected to migrate from water to the land.

OTHER ADVERSE EFFECTS: Not available.

OCTANOL/WATER Not available.

PARTITION COEFFICIENT:

VOLATILE ORGANIC COMPOUNDS: Negligible

AQUATIC RELEASE: Advise authorities if product has entered or may enter watercourses or sewer drains.

Section XIII – Disposal Considerations

Dispose in accordance with federal, state, provincial, and local regulations.

Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

USEPA WASTE CODES: This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it must be managed in accordance with 40 CFR Part 279. Processing, use, or contamination by user may change the waste code(s) applicable to the disposal of these products.

Section XIV – Transport Information

LAND (DOT): Not regulated as a hazardous material for Land Transport.
(Shipping Name)

LAND (TDG): Not regulated as a dangerous good for Land Transport.
(Shipping Name)

EMERGENCY RESPONSE Not applicable

GUIDE NUMBER: Reference North American Emergency Response Guidebook.

Section XV – Regulatory Information

SARA Sections 302, 304

Based on the ingredients listed in SECTION 3, this product does contain any “extremely hazardous substances” listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA Sections 311, 312

This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard: YES

Delayed (Chronic) Health Hazard: NO

Physical Fire: NO

Physical Sudden Release of Pressure: NO

Physical Reactivity: NO

SARA Section 313

No SARA 313 chemicals are present above the reporting threshold.

RQ CERCLA: Hazardous substances: Ethyl acrylate: 1000 lbs (454) kg; Phosphoric acid: 5000 lbs (2270 kg)

CALIFORNIA: This product contains a component that list the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm: Ethyl acrylate.

TSCA: All components listed in SECTION 3 are listed on, or are exempted from the requirements.

Section XVI – Other Information

NFPA Rating (Health, Fire, Reactivity): 0, 1, 0

MSDS Version Number: 1.0

MSDS Effective Date: 10/23/2008

MSDS Revisions: A vertical bar (|) in the left margin indicates an amendment from the previous version.

MSDS Regulation: The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

MSDS Distribution: The information in this document should be made available to all who may handle the product.

Disclaimer: Information presented herein has been compiled from information provided to us by our suppliers and other source are considered to be dependable and is accurate and reliable to the best of our knowledge. Nothing herein is to be construed as recommending any practice or the use of any product in violation of any patent or in violation of any law or regulation. It is the users' responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.