

# MAXIMO

MAXIMUM LIFE + MAXIMUM PROTECTION

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## Safety Data Sheet

### Maximo Synthetic Blend 5W-20, 5W-30, 10W-30 SN

Section 1: Identification					
MAXIMO 5W-20		MAXIMO 5w-30		MAXIMO 10W-30	
12/QT	F141-52	12/QT	F141-53	12/QT	F141-13
5g	F145-52	5g	F145-53	5g	F145-13
55g	F149-52	55g	F149-53	55g	F149-13
Bulk	F140-52	Bulk	F140-53	Bulk	F140-13

Identified Uses: Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant.

Uses advised against: All others

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For lubricating passenger car motors. If these products are used in combination with other products, refer to the Material Safety Data Sheet for those products.

#### Section 2: Hazard(s) Identification

This material is not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

GHS LABEL ELEMENTS: Symbol(s) None needed according to classification criteria.

Signal Word: None needed according to classification criteria.

Hazard Statement(s): None needed according to classification criteria.

Precautionary Statement(s)

Prevention: None needed according to classification criteria.

Response: None needed according to classification criteria.

Storage: None needed according to classification criteria.

Disposal: Dispose in accordance with all applicable regulations.

Hazard(s): Not Otherwise Classified

Repeated exposure may cause skin dryness or cracking.

#### Section 3: Composition/Information on Ingredients

Chemical Name	CAS	Approximate percent without disclosing trade secrets
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	0-100%
Residual oils (petroleum), solvent refined	64742-01-4	0-100%
Residual oils (petroleum), hydrotreated	64742-57-0	<10
Lubricating oils (petroleum), C>25, hydrotreated bright stock		0-100%
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based		0-100%
Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C15-30, branched and cyclic, high viscosity index		0-45%
Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C20-40, branched and cyclic, high viscosity index		0-45%
Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C25-55, branched and cyclic, high viscosity index		0-45%
Mineral Oil		4-24%
Petroleum distillates, hydrotreated heavy naphthenic		0-26%
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts		0.25-1.5

#### Section 4: First-Aid Measures

**Eye Contact:** Irritation or redness from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.**Skin Contact:** Remove contaminated clothing & shoes and cleanse area thoroughly by washing with soap and water. If irritation or redness appears, seek medical attention.



**Inhalation (Breathing):** First aid is not normally necessary. If breathing changes, move to fresh air and seek immediate medical attention.

**Ingestion (Swallowing):** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention. Accidental swallowing can result in irritation of the digestive tract, nausea and diarrhea.

**Most important symptoms and effects, both acute and delayed:** Breathing mists/ vapors generated at high temperatures may cause respiratory irritation. Dry skin and possible irritation can develop with repeated or prolonged exposure.

Notes to Physician: Large amounts of oil-laden material may produce serious aspiration pneumonia and could potentially develop problems long term. Inhalation exposure to oil mists less normal exposure are unlikely to cause pulmonary abnormalities.

## Section 5: Fire-Fighting Measures

### NFPA 704 Hazard Class

**Health: 1 Flammability: 1 Instability: 00 (Minimal)**

- 1 (Slight)
- 2 (Moderate)
- 3 (Serious)
- 4 (Severe)



**Extinguishing Media:** Use dry chemical, carbon dioxide, foam, or water spray. Water or foam may cause frothing of materials heated above 212°F / 100°C. Carbon dioxide can displace oxygen. Be careful if applying carbon dioxide in small enclosed areas. Use of foam and water on the together destroys the foam.

### Specific hazards arising from the chemical:

- Unusual Fire & Explosion Hazards: If fire happens, container & material may burn, but should not ignite.
- Hazardous Combustion Products: Combustion produces smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus can be formed as well.

**Special Protection for firefighters:** Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Avoid spreading burning liquid with water used for cooling purposes. Cool equipment exposed to fire with water, if it can be done safely. Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely.

## See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

## Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind from spills. Avoid direct contact with oil. For large spillages, notify local authorities and isolate immediate hazard. Wear protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop spills safely and prevent spills from entering sewers, storm drains and natural waterways. Use water sparingly to minimize environmental contamination. Spills into navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

**Methods and material for containment and cleaning up:** Notify relevant authorities and cleanup any spill immediately. Dike to prevent penetration into outside areas. Absorb spill with inert material such as sand, and place in suitable container for disposal. If spilled on water remove with appropriate methods such as skimming or absorbents. Remove contaminated soil for remediation or dispose in accordance with local regulations.

Local regulations vary so check with local laws of appropriate action. See Section 13 for more info on disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Keep away from flames and hot surfaces. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Spills will produce very slippery surfaces. **Incompatibilities:** Oxidizing materials, acids, reactive halogens.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

**Conditions for storage:** Keep containers tightly closed and labeled. Store material approved containers and in cool, dry, ventilated area away from heat and all sources of ignition. "Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly cleaned. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding.

## Section 8: Exposure Controls/Personal Protection





Chemical Name	ACGIH	OSHA
Lubricant Base Oil (Petroleum)	TWA: 5mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> as Oil Mist, if Generated	TWA: 5 mg/m <sup>3</sup> as Oil Mist, if generated

**Note:** State, local or other agencies or advisory groups may have established more stringent limits. Advise with your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury.

**Skin/Hand Protection:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Check with manufacturer or gloves for protection.

**Respiratory Protection:** Where there is potential for airborne exposure above the exposure limit.

**Component Exposure Limits:** ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

#### Section 9: Physical and Chemical Properties

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

<b>Appearance:</b> Amber	<b>Flash Point:</b> 383°F (195°C) (minimum) Cleveland Open Cup
<b>Physical Form:</b> Liquid	<b>Test Method:</b> Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010
<b>Odor:</b> Petroleum	<b>Boiling Point/Range:</b> 475°F (246°C) (minimum)
<b>Odor Threshold:</b> N/A	<b>Vapor Pressure:</b> <1 mm Hg
<b>pH:</b> N/A	<b>Partition Coefficient (n-octanol/water) (Kow):</b> N/A
<b>Vapor Density (air=1):</b> >1	<b>Melting Point:</b> Not available [pour point 0°F (-18°C) (maximum)].
<b>Upper Explosive Limits:</b> N/A	<b>Auto-ignition Temperature:</b> N/A
<b>Lower Explosive Limits:</b> N/A	<b>Decomposition Temperature:</b> N/A
<b>Evaporation Rate:</b> N/A	<b>Specific Gravity (water=1):</b> 0.88 (water = 1)
<b>Particle Size:</b> Not applicable	<b>Bulk Density:</b> 7.3 LB/US gal (880 g/l)
<b>Percent Volatile:</b> Negligible	<b>Viscosity:</b> >20.5 mm <sup>2</sup> /s @ 104°F (40°C)
<b>Flammability (solid, gas):</b> May Ignite	<b>Solubility in Water:</b> Insoluble

#### Section 10: Stability and Reactivity

**Reactivity:** Not chemically reactive.

**Chemical stability:** Stable under normal ambient and anticipated conditions of use.

**Possibility of hazardous reactions:** Hazardous reactions not anticipated. Will not polymerize.

**Conditions to avoid:** Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.

**Incompatible materials:** Avoid contact with strong oxidizing agents and strong reducing agents, acids and reactive halogens.

**Hazardous decomposition products:** Not anticipated under normal conditions of use.

#### Section 11: Toxicological Information

##### Substance / Mixture

Acute Toxicity	Hazard	Other Info	LC50/LD50 Data
Inhalation	Unlikely to be harmful		>5 mg/L approx.
Dermal	Unlikely to be harmful		> 2 g/kg approx.
Oral	Unlikely to be harmful		> 5 g/kg approx.

##### Component Analysis - LD50/LC50

**Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4):** Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg

**Residual oils (petroleum), solvent refined (64742-01-4):** Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg

**Residual oils (petroleum), solvent dewaxed (64742-62-7):** Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg

**Lubricating oils (petroleum), C>25, hydrotreated bright stock (72623-83-7):** Oral LD50 Rat >5000 mg/kg

**Lubricating oils, petroleum, hydrotreated spent (64742-58-1):** Dermal LD50 Rabbit >4480 mg/kg; Oral LD50 Rat >2000 mg/kg

**Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (72623-87-1):** Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg

**Aspiration Hazard:** Not probable

**Skin Corrosion/Irritation:** Causes mild skin irritation. Exposure may cause dryness.

**Serious Eye Damage/Irritation:** Causes mild eye irritation.

**Skin Sensitization:** N/A

**Respiratory Sensitization:** N/A

**Specific Target Organ Toxicity (Single & Repeated Exposure):** N/A

**Carcinogenicity:** Classified for carcinogenicity.

**Germ Cell Mutagenicity:** Classified for germ cell mutagenicity .

**Reproductive Toxicity:** Reproductive toxicity is low.

**Information on Toxicological Effects of Components Distillates, petroleum, hydro treated heavy paraffinic**







Carcinogenicity: Meets the IP-346 criteria of less than 3 percent PAH's and is not considered a carcinogen.

**Section 12: Ecological Information (non-mandatory)**

**GHS Classification: H412 -- Hazardous to the aquatic environment, chronic toxicity -- Category 3**

Long lasting harmful effects to aquatic life.

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

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L
48 Hr EC50 Daphnia magna	>1000 mg/L

**Residual oils (petroleum), solvent refined (64742-01-4)**

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L
48 Hr EC50 Daphnia magna	>1000 mg/L

**Residual oils (petroleum), solvent dewaxed (64742-62-7)**

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L
48 Hr EC50 Daphnia magna	>1000 mg/L

**Lubricating oils (petroleum), C>25, hydrotreated bright stock (72623-83-7)**

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Lepomis macrochirus	>10000 mg/L

**Lubricating oils, petroleum, hydrotreated spent (64742-58-1)**

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Brachydanio rerio	79.6 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	3.2 mg/L [semi-static]

**Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (72623-87-1)**

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L
48 Hr EC50 Daphnia magna	>1000 mg/L

**Petroleum distillates, hydrotreated heavy naphthenic (64742-52-5)**

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L
48 Hr EC50 Daphnia magna	>1000 mg/L

**Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)**

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Pimephales promelas	1.0 - 5.0 mg/L [static]
96 Hr LC50 Pimephales promelas	10.0 - 35.0 mg/L [semi-static]
48 Hr EC50 Daphnia magna	1 - 1.5 mg/L

**Toxicity:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Persistence and Degradability:** Not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

**Bioaccumulative Potential:** Log Kow values measured for the hydrocarbon components of this material are greater than 5.3, and therefore regarded as having the potential to bioaccumulate.

**Mobility in Soil:** In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. Biodegradation of the hydrocarbon constituents in soil and sediment will be slow.

**Other adverse effects:** N/A

**Section 13: Disposal Considerations (non-mandatory)**

Refer to local and federal regulations as to disposal of waste materials. It is the responsibility of the user to determine the correct waste determinations. This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. Ideally, "Used Oil" recycling would be the most environmentally conscious plan for disposal.

**Section 14: Transport Information (non-mandatory)**

**U.S. Department of Transportation (DOT)**

Shipping Description: Not regulated

Note: If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)

**International Maritime Dangerous Goods (IMDG)**

Shipping Description: Not regulated

Note: U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** N/A

**International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA) UN/ID #:** N/A

	LTD QTY	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:	N/A	N/A	N/A





Max. Net Qty. Per Package:	N/A	N/A	N/A
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**Section 15: Regulatory Information (non-mandatory)**

**CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):**

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

**CERCLA/SARA - Section 311/312 (Title III Hazard Categories)**

**Acute Health Hazard:** No

**Chronic Health Hazard:** No

**Fire Hazard:** No

**Pressure Hazard:** No

**Reactive Hazard:** No

**CERCLA/SARA - Component Analysis:** This product does not contain any "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

**TSCA Inventory**

All the components of these products are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component	CAS#	TSCA
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	Yes
Residual oils (petroleum), solvent refined	64742-01-4	Yes
Residual oils (petroleum), hydrotreated	64742-57-0	Yes
Residual oils (petroleum), solvent dewaxed	64742-62-7	Yes
Lubricating oils (petroleum), C>25, hydrotreated bright stock	72623-83-7	Yes
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	Yes
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based	72623-87-1	Yes
Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C20-40, branched and cyclic, high viscosity index	178603-65-1	Yes
Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C25-55, branched and cyclic, high viscosity index	178603-66-2	Yes
Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C15-30, branched and cyclic, high viscosity index	178603-64-0	Yes
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	Yes
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	Yes

**EPA (CERCLA) Reportable Quantity (in pounds):** This material does not contain any chemicals with CERCLA Reportable Quantities.

**California Proposition 65:** Does not contain any chemicals which are known to the State of California to cause cancer, birth defects, or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

**Canadian Regulations** These products have been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

**International Hazard Classification**

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations. WHMIS Hazard Class: none

**International Inventories**

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA. All components are either on the DSL, or are exempt from DSL listing requirements.

**U.S. Export Control Classification Number:** EAR99

**Section 16: Other Information**

SDS Revision:6/26/2015

