

MAXIMO

MAXIMUM LIFE + MAXIMUM PROTECTION

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Safety Data Sheet LONGLIFE AW32, AW46, AW68, AW100 5000+ Hour Hydraulic Oil

Section 1: Identification							
MAXIMO LL AW 32		MAXIMO LL AW 46		MAXIMO LL AW68		MAXIMO LL AW100	
5g	F425-32	5g	F425-46	5g	F425-68	5g	F425-100
		55g	F429-46	55g	F429-68	55g	F429-100
Bulk	F420-32					Bulk	F420-100

Identified Uses: Hydraulic Oil, Petroleum oil, Lube oil, Petroleum hydrocarbon, Lubricant

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Heavy duty hydraulic fluid with excellent anti-wear, anti-oxidation and anti-foam properties used for lubricating hydraulic systems.

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.

Pictograms/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 of in accordance with all applicable federal, state and local regulations.

Hazard(s) Not Otherwise Classified

Repeated exposure may cause skin dryness or cracking.

Section 3: Composition/Information on Ingredients

Chemical Name:	CASRN	Concentration is an approximate
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	
Residual oils (petroleum), solvent refined heavy parafinic	64741-88-4	<90%
Residual oils (petroleum), hydrotreated	64742-57-0	<10%
Residual oils (petroleum), solvent dewaxed	64742-62-7	<85%
Residual oils (petroleum), solvent refined	64742-01-4	<85%
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts		<1%
Mineral Oil		<1%

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):** 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. Product is not sensitive to mechanical impact.
- 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.

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. Stay away from strong oxidizing materials.

Section 8: Exposure Controls/Personal Protection

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Chemical Name	ACGIH	OSHA
Petroleum hydrocarbon	ACGIH and NIOSH have not developed exposure limits for any of this product's components.	OSHA have not developed exposure limits for any of this product's components.

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: Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

Eye/Face Protection: Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required Safety glasses, lab coat or apron.

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.

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.

Appearance: Amber, red, green, or blue liquid; petroleum odor.

Physical Form: Viscous liquid

Test Method: Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

Odor: Petroleum

Odor Threshold: N/A

pH: N/A

Vapor Density (air=1): Less than 0.1 mm Hg at 68°F (20°C)

Melting/Freezing Point: Not available [pour point 21°F (-6C) (maximum)]

Upper Explosive Limits: N/A

Lower Explosive Limits: N/A

Evaporation Rate (nBuAc=1): Not available

Specific Gravity (water=1): 0.88 (water = 1) (approximately)

Viscosity: 13.7 - 26.9 cSt @ 100°C; 130 - 362 cSt @ 40°C

Flammability (solid, gas): May Ignite

Flash Point: 329°F (165°C) (minimum)

Particle Size: Not applicable

Boiling Point/Range: 475°F (246°C) (minimum)

Vapor Pressure: <1 mm Hg

Partition Coefficient (n-octanol/water) (Kow): N/A

Solubility in Water: Insoluble

Auto-ignition Temperature: N/A

Decomposition Temperature: N/A

Percent Volatile: Negligible

Bulk Density: 7.3 LB/US gal (880 g/L) (approximately)

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: Avoid sparks, flames, or other sources of ignition.

Incompatible materials: Avoid contact with strong oxidizing agents and strong reducing agents.

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	Avoid contact	>5 mg/L approx.
Dermal	Unlikely to be harmful	Avoid contact	> 2 g/kg approx.
Oral	Unlikely to be harmful	Avoid contact	> 5 g/kg approx.

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

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: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Germ Cell Mutagenicity: No information available for the product.

Reproductive Toxicity: Reproductive toxicity is low.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

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.

Toxicity: Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment. Toxic to aquatic life. Spills can have a harmful or damaging effect on the environment.

Component Analysis - Ecotoxicity - Aquatic Toxicity. 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]





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

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

Bioaccumulative Potential: No information available for the product.

Mobility in Soil: No additional information is available.

Other adverse effects: No additional information is available.

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

Section 15: Regulatory Information (non-mandatory)

SARA 302/304

Based on the ingredient(s) listed in Section 3, this product does not 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.

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

SARA Section 313

Component Analysis: This product contains a "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. Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) 1.0 % de minimis concentration (related to Zinc compounds)

CERCLA Component Analysis: Based on the ingredient(s) listed in SECTION 3, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

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 Analysis:

Component	CAS#	TSCA
Lubricating oils, petroleum, hydrotreated spent 64742-58	64742-58-1	Yes
Residual oils (petroleum), solvent dewaxed	64742-62-7	Yes
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	Yes

U.S. State Regulations: The following appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
Phosphorodithioic acid, O,O-di-C1- 14-alkyl esters, zinc salts ('related to: Zinc compounds)	68649-42-3	Yes	No	No	Yes	Yes

No component(s) are listed under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
Canadian Regulations

Component	CAS#	CAN
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	DSL
Residual oils (petroleum), solvent dewaxed	64742-62-7	DSL
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts		DSL

Canadian WHMIS Information: Not regulated.

Component Analysis Not regulated.

Section 16: Other Information

SDS Revision:7/25/2017

