



SYNTHETIC GEAR OIL

Released: 2017-06-27

Version: 1.1
Revision Date: 2017-12-21

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

1.1 Product Identifier

Trade Name: Synthetic Gear Oil 75W-90
Product Number: 44901, 44505, 44055

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Gear oil
None known

Restrictions on Use:

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: Maxima Racing Oils
9266 Abraham Way
Santee, CA 92071
USA
Information Phone Number: +1 619 449 5000
E-mail: info@maximausa.com

1.4 Emergency Telephone Number

Emergency Spill Information: In USA: CHEMTREC +1 703 527 3887 (24 hours)
Outside USA: +1 619 449 5000

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP (1272/2008) Classification:

The mixture is not classified as hazardous according to Regulation (EC) CLP (1272/2008)

2.2 Label Elements

Hazard Statements	Precautionary Phrases
None	None

EUH Statements

EUH208 (Contains polysulfides, di-tert-Bu and reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl. May produce an allergic reaction.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



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3.2 Mixture

Chemical Name	CAS#	EINECS#	REACH registration#	CLP Classification	% w/w
Synthetic base oils	68037-01-4	500-183-1	01-2119486452-34-xxxx	Aspiration Toxicity 1 (H304)	30-50
Trimethylol-propane tricaprilate/tricaprate	11138-60-6	234-392-1	01-2119498305-6-xxxx	NC	1-5
di-tert-Bu polysulfides ¹	68937-96-2	273-103-3	01-2119540515-43-xxxx	Skin Sensitisation 1B (H317)	1-< 3
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl	-	931-384-6	01-2119493620-38-xxxx	Acute Toxicity 4 (H302) Skin Sensitisation 1 (H317) Eye Damage 1 (H318) Aquatic Chronic 2 (H411)	0.5-<1
Oleylamine ²	112-90-3	204-015-5	-	Acute Toxicity 4 (H302) Aspiration Toxicity 1 (H304) Skin Corrosion 1B (H314) Eye Damage 1 (H318) Specific Target Organ Toxicity SE 3 (H335) Specific Target Organ Toxicity RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.1-<1

Note L. The substance contains less than 3 % DMSO extract as measured by IP 346, and does not need to be classified as a carcinogen.

Note 1. This substance has a specific concentration limit such that classification as H317 applies if the concentration is above 46%.



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Note 2. M-factor (acute) = 10, M-factor (chronic) = 10

The exact percentage and composition are being withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye: Flush eyes with water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists, get medical attention.

Skin: Wash skin with soap and water. Remove clothing and shoes if contaminated. Launder clothing before reuse. If irritation or rash develops, get medical attention.

Inhalation: If inhaled remove to fresh air. If irritation or difficulty in breathing occurs, get medical attention.

Ingestion: If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: May cause mild eye irritation. Prolonged skin contact may cause irritation. The product contains small amounts of two sensitizers, may cause dermatitis in sensitive individuals. Inhalation of vapors or mists may cause respiratory irritation. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed: As a general rule, and in all cases of doubt or when symptoms persist, always seek medical attention. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE AND EXPLOSION DATA

5.1 Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: This material will burn although it is not easily ignited.

Combustion Products: Combustion will produce carbon oxides and unidentified organic compounds.

5.3 Advice for Fire-Fighters:

Special Fire Fighting Procedures: Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:



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Wear appropriate protective equipment. Wash thoroughly after handling. See also: "Personal Protection" section 8.

6.2 Environmental Precautions:

Avoid release into the environment. Report spill as required by local and national regulations.

6.3 Methods and Material for Containment and Cleaning Up:

Dike spill and collect with an inert absorbent. Place into closable containers for disposal. Collected material is handled in accordance with section 13 "Disposal Considerations".

6.4 Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Wash thoroughly after handling. Remove oil-soaked clothing and launder before re-use.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a cool area away from oxidizing agents. Protect containers from physical damage.

7.3 Specific end use(s): The product is to be used as a gear oil. Prolonged contact with the skin should be prevented due to the risk of skin dryness and cracking. If inhalation of high concentrations of vapors and mists cannot be prevented appropriate personal protective equipment should be used.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: Refer to country-specific legislation for specific requirements where not listed below.

Chemical Name	Exposure Limits
Petroleum distillates	None Established
di-tert-Bu polysulfides	None Established
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl	None Established
Oleylamine	None Established

8.2 Exposure Controls:



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Appropriate Engineering Controls: Use with adequate local exhaust ventilation to minimize exposure. Use explosion proof equipment where required.

Respiratory Protection: If the exposure is excessive or irritation is experienced, an approved particulate/organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with local regulations and good industrial hygiene practice.

Skin Protection: Wear impervious gloves in accordance with EN 374 to avoid skin contact. Protective clothing if needed to avoid skin contact and contamination of personal clothing. Suitable washing should be available in the work area. Contaminated clothing should be removed and laundered before re-use.

Eye Protection: Wear chemical goggles in accordance with EN 166 to prevent eye contact.

Other Protective Equipment: None should be needed under normal use conditions. In Europe follow EN 13034.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance	Liquid
Color	Light brown
Odor	Slight petroleum odor
Odor Threshold	No data available
pH	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	190°C (378°F)
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper Explosion Limit	No data available
Lower Explosion Limit	No data available
Vapor Pressure	<0.01 mmHg @ 38°C
Vapor Density (Air=1)	>1
Relative Density	0.85-0.87 @ 15.6°C
Solubility	Soluble in hydrocarbons; insoluble in water
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	< 5.0% weight (Approximate)
Viscosity	26.0 cSt @ 40°C



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9.2 Other Information: None available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not expected to be reactive

10.2 Chemical Stability: Stable

10.3 Possibility of Hazardous Reactions: None known.

10.4 Conditions to Avoid: None known.

10.5 Incompatible Materials: Avoid contact with strong oxidizing agents.

10.6 Hazardous Decomposition Products: Thermal decomposition may produce carbon oxides and unidentified organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye Contact: May cause mild irritation.

Skin Contact: Prolonged or repeated contact may cause mild irritation or dryness. Repeated skin contact may cause non-allergic dermatitis. May cause allergic dermatitis in sensitive individuals.

Inhalation: Excessive inhalation of vapors or mists may cause upper respiratory tract irritation.

Ingestion: Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea.

Chronic Effects of Overexposure: Used motor oils have been found to cause skin cancer in skin painting studies with laboratory animals.

Acute Toxicity Values:

Petroleum Distillates (CAS -): Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.0 mg/L/4 hr (aerosol), Dermal rabbit LD50 >2000 mg/kg

Petroleum Distillates (CAS 64742-54-7): Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.5 mg/L/4 hr (mist), Dermal rabbit LD50 >2000 mg/kg

Skin corrosion/irritation: The product does not meet the criteria to be classified as a skin irritant.

Eye damage/irritation: The product does not meet the criteria to be classified as an eye irritant.

Respiratory Irritation: The product does not contain any components that are respiratory irritants.



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Respiratory Sensitization: The product does not contain any components that are respiratory sensitisers.

Skin Sensitization: The product contains small amounts of two skin sensitisers. May cause allergic dermatitis in sensitive individuals.

Germ Cell Mutagenicity: The product does not contain any components that are germ cell mutagens.

Carcinogenicity: None of the components of this product present at 0.1% or greater are listed as carcinogens by IARC, NTP or the EU CLP.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available

Aspiration Hazard: This product does not meet the criteria of an aspiration hazard as the kinematic viscosity exceeds 20.5 cSt @ 40°C.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Petroleum Distillates (CAS -): 96 hr LLO Pimelas promelas 100 mg/L, 48 hr ELO Daphnia magna 1000-10000 mg/L, 72 hr ELO Pseudokirchneriella supcapitata 100 mg/L

Petroleum Distillates (CAS 64742-54-7): LL50 fish >100 mg/L, EL50 aquatic invertebrates > 100 mg/L, EL50 algae > 100 mg/L

di-tert-Bu polysulfides: LC50 fish NA, 2 d EC50 Daphnia magna 63 mg/L, 3 d EC50 Algae > 100 mg/L

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl: 4 d LC50 Fathead Minnow 8.5 mg/L, 21 d EC50 Daphnia magna 0.66 mg/L, 4 d EC50 Selenastrum capricornutum 6.4 mg/L

Oleylamine: 4 d LC50 Fathead Minnow 0.11 mg/L, 2 d EC50 Daphnia magna 0.011 mg/L, 3 d EC50 Algae > 0.1 mg/L

12.2 Persistence and Degradability

Petroleum Distillates (CAS -) are not readily biodegradable (< 60% after 28 days).

Petroleum Distillates (CAS 64742-54-7) are not readily biodegradable.

di-tert-Bu polysulfides: Carbon dioxide generation 13% (28 d, OECD TG 301 B).

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl: Carbon dioxide generation 7.4% (28 d, OECD TG 301 B).

Oleylamine: Carbon dioxide generation 66% (28 d, OECD TG 301 B).



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12.3 Bioaccumulative Potential

Petroleum Distillates (CAS -) have a log Kow of > 3.5 which suggests a potential for bioaccumulation.

Petroleum Distillates (CAS 64742-54-7) have a log Kow of > 5.3 which suggests a potential for bioaccumulation.

di-tert-Bu polysulfides have a log Kow of 6 (measured) which suggests a potential for bioaccumulation.

Oleylamine has a BCF of 500 (calculated) which suggests a potential for bioaccumulation.

12.4 Mobility in Soil

The product is not water soluble (floats on water) and may be adsorbed to soil particles.

12.5 Results of PBT and vPvB Assessment: Components do not meet the criteria of PBT or vPvB.

12.6 Other Adverse Effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with all local and national regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
EU ADR/RID	None	Not Regulated	None	None	
IMDG	None	Not Regulated	None	None	
IATA/ICAO	None	Not Regulated	None	None	

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

This SDS conforms to Regulation (EU) No. 1907/2006 and 2015/830.

Label in accordance with Regulation (EC) No. 1272/2008 (CLP).



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SECTION 16: OTHER INFORMATION

Supersedes: Version 1.0

Date Updated: December 21, 2017

Revision Summary:

6/27/17: New document

12/21/17: Updated emergency telephone #

CLP Classification for Reference (See Sections 2 and 3):

- Acute Tox. 4 Acute Toxicity Category 4
- Asp. Tox. 1 Aspiration Toxicity Category 1
- Skin Corr. 1B Skin Corrosion Category 1B
- Skin Sens. 1/1B Skin Sensitisation Category 1/1B
- Eye Dam. 1 Eye Damage Category 1
- STOT SE 3 Specific Target Organ Toxicity Single Exposure Category 3
- STOT RE 2 Specific Target Organ Toxicity Repeated Exposure Category 2
- Aquatic Acute 1 Aquatic Acute Category 1
- Aquatic Chronic 1 Aquatic Chronic Category 1
- Aquatic Chronic 2 Aquatic Chronic Category 2
- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye irritation
- H335 May cause respiratory irritation
- H373 May cause damage to organs through prolonged or repeated exposure
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H411 Toxic to aquatic life with long lasting effects.
- NC Not Classified

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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.