AMMA 75W90 Full Synthetic Gear Lube

1 Identification

GHS Product Identifier

AMMA 75W90 Full Synthetic Gear Lube

Other means of identification

Lubricating Oil

Supplier's details

AMMA Marine Inc.
440 Boulevard Industriel
Saint-Eustache, QC J7R 5V3
Canada
phone: 450-983-2500
email: info@ammamarine.ca

Emergency phone number

FOR EMERGENCIES INVOLVING DANGEROUS GOODS
Call CANUTEC's 24-Hour Number
1-888-CANUTEC (226-8832) (North American use) and/or
1-613-996-6666 (International use)

2 Hazard(s) identification

Classification of the substance or mixture

Not Classified.
While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

GHS label elements

Other hazards which do not result in classification

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0		50 - 70	
Mineral oil			5 - 10	
Polysulfides, di-tert-Bu	68937-96-2		1 - 5	

Phosphoric acid esters/amine salt		1 - 5
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethano	95-38-5	0.1 - 1

4 First-aid measures

Description of necessary first-aid measures

Eye contact: Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention

Inhalation: Remove victim to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing
and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice.

Ingestion: Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Eye contact: May cause mild irritation

Inhalation: No known significant effects or critical hazards.

Skin contact: May cause mild irritation

Ingestion: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

5 Fire-fighting measures

Suitable extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media: No information available

Specific hazards arising from the chemical

Hazardous combustion products:
Carbon oxides (CO, CO2), sulphur oxides (SOx), hydrogen sulphide (H2S), alkyl mercaptans, sulfides, smoke and irritating

vapours as products of incomplete combustion.

Special protective actions for fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Material can create slippery conditions.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.

Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevent authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.
Remove all sources of ignition.
Soak up with inert absorbent material.
Non-sparking tools should be used.
Ensure adequate ventilation.
Contact the proper local authorities

7 Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general Occupational Hygiene: Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See section 8 for additional information on hygiene measures. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not ingest. Keep away from heat and sources of ignition. Keep container tightly closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent

leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

8 Exposure controls/personal protection

Control parameters

Components with workplace control parameters:

Components	CAS-No.	Value Type (Form of exposure)	Control Parameters / Permissible concentrations	Basis
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified	72623-86-0	TWA-8hr STEL (mist)	5 mg/m3 10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessry to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face throughly after handling chemical products before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment by a qualified industrial hygienist indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible the following protection should be worn, unless the assessment indicates a higher degree of protection: wear face shield and protective suit for abnormal processing problems.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment by a qualified industrial hygienist indicates this necessary. Suitable materials; neoprene, nitrile, polyvinyl alcohol (PVA), Viton (R).

Body Protection: Personal protective eqipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment by a qualified industial hygienist indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the products and the safe working limits of the selected respirator. Filter type - organic vapour filter.

9 Physical and chemical properties

Physical and chemical properties

Appearance		
Physical state	:	Viscous Liquid
Color	:	Amber
Odor	:	Mild petroleum oil like
Odor Threshold	:	Not available
pH	:	Not available
Pour point	:	Not available
Boiling point	:	Not available
Flash point	:	202 °C (396 °F) Method: Cleveland open cup
Evaporation rate	:	Not available
Flammability (solid,gas)	:	Not available
Vapor pressure	:	Not available
Vapor density	:	Not available
Relative density	:	Not available
Density	:	0.8584 kg/l (15 °C / 59 °F)
Partition coefficient n-octanol/water	:	Not available
Auto-ignition temp	:	Not availalbe
Decomposition temp	:	Not available
Visosity	:	96.7 cSt (40 °C / 104 °F) 15.5 cSt (100 °C / 212 °F)

10 Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage, and transport. Hazardous polymerisation does not occur.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use hazardous reactions will not occur.

Conditions to avoid

No data available

Incompatible materials

Reactive with oxidising agents and acids

Hazardous decomposition products

May release COx, SOx, POx, H2S, alkyl mercaptans, methacrylate monomers, sulfides, smoke and irritating vapours when heated to decomposition

11 Toxicological information

Information on the likely routes of exposure

Inhalation: No adverse effects due to inhalation are expected.
Skin contact: May cause mild skin irritation.
Eye contact: Direct contact with eyes may cause temporary irritation.
Ingestion: Expected to be a low ingestion hazard.

Delayed and immediate effects and also chronic effects from short and long term exposure

Potential chronic health effects

General	:	No known significant effects or critical hazards
Carcinogenicity	:	No known significant effects or critical hazards
Mutagenicity	:	No known significant effects or critical hazards
Teratogenicity effects	:	No known significant effects or critical hazards
Developmental effects	:	No known significant effects or critical hazards
Fertility effects	:	No known significant effects or critical hazards

Numerical measures of toxicity (such as acute toxicity estimates)

Acute Toxicity

The product has not been tested but is expected to have a low order of toxicity.

Components:
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg,
Acute inhalation toxicity: LC50 (Rat): > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg

Respiratory or skin sensitisation

The product has not been tested. It is not expected to be a respiratory or skin sensitizer.

Germ cell mutagenicity

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen

Carcinogenicity

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a carcinogen

Reproductive toxicity/ Teratogenicity

No known significant effects or critical hazards. No component of this product at levels greater than 0.1% is classified by established
regulatory criteria as teratogenic or embryotoxic.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

12 Ecological information

Toxicity

Ecotoxicity: Remarks: No data available

Persistence and degradability

Product:
Biodegradability: Remarks: No data available

Bioaccumulative potential

Remarks: No data available

Mobility in soil

Remarks: No data available

13 Disposal considerations

Disposal methods

The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed
disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company.
Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

14 Transport information

UN Number

Not regulated as dangerous goods

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

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

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

The components of this product are reported in the following inventories:
DSL: On the inventory, or in compliance with the inventory
TSCA: All chemical substances in this product are either listed on the
TSCA Inventory or are in compliance with a TSCA Inventory exemption.
IECSC: On the inventory, or in compliance with the inventory

16 Other information

Other information

Full text of other abbreviations
ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL : Canada. British Columbia OEL
CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA : 8-hour, time-weighted average
CA AB OEL / TWA : 8-hour Occupational exposure limit
CA AB OEL / STEL : 15-minute occupational exposure limit
CA BC OEL / TWA : 8-hour time weighted average
CA QC OEL / TWAEV : Time-weighted average exposure value
CA QC OEL / STEV : Short-term exposure value
AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System