MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: Athen Marine HYD EAL 32

Container size: -

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application: Marine Environmentally Acceptable Hydraulic Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier: Athen Marine Lubricants LLC
PO BOX: 111541
Dubai, UAE.
Tel: +971 42587297
www.athenmarine.com

Emergency contact: Tel: +971504834180

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification: Aspiration Hazard Category 1

2.2. Label elements

The substance/mixture does not meet the criteria for classification and labelling.

2.3. Other hazards

Other: Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema, skin cracking, and oil acne. The harmful effects may increase in used oil.

Hazard statement(s)
Not Applicable.

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Disposal
P501 Dispose of contents/container to an authorized hazardous or special waste collection point in accordance with any local regulation.

Precautionary statement(s) Storage:
P405 Store locked up.

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land"

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Ingredient Name	% (w/w)	CAS Number
7-methylenepentadecene, 1- 1-tetradecene dimers, trimers, hydrogenated	20-50	1000172-11-1
proprietary ingredients	NotSpec	Not Available

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: If fumes, aerosols, or combustion products are inhaled, remove from the contaminated area.
Other measures are usually unnecessary.

Skin contact: If skin or hair contact occurs:
Flush skin and hair with running water (and soap if available)
Seek medical attention in event of irritation. .

Eye contact: Wash out immediately with water.
If irritation continues, seek medical attention
Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Ingestion: Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media:
Extinguish with foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, harmful vapours/gases may be formed. Fire in closed areas should only be extinguished by trained personnel.

5.3. Advice for firefighters

Protective equipment for fire-fighters: Wear suitable respiratory protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark the spillage. Avoid inhalation of oil mist and contact with skin and eyes.
Keep public away from danger area. In case of spills, beware of slippery floors and surfaces.

Protective equipment: Wear necessary protective equipment.

6.2. Environmental precautions

Environmental precautions: Avoid discharge into drains. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Dam and absorb spillages with sand, earth or other non-combustible material.

6.4. Reference to other sections

Reference: For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Observe good chemical hygiene practices. Avoid inhalation of oil mist and contact with skin and eyes. Avoid prolonged and repeated contact with oil, particularly used oil. Wash hands before breaks and before smoking, eating or drinking.

Technical measures: Use work methods which minimize oil mist production. Do not smoke or use open fire or other sources of ignition.

Technical precautions: When working with heated oil, mechanical ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: Store in tightly closed original container in a well-ventilated place.

Storage conditions: Keep at a temperature not exceeding: 45°C.

7.3. Specific end use(s)

Specific use(s): Lubricant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

CAS-No.:	Chemical name:	As:	Exposure limits:	Type:	Notes:	References:
-	7-methylenepentadecene, 1-tetradecene dimers, trimers, hydrogenated	-	5 mg/m3	PEL (Long Term)	-	
		-	10 mg/m3	PEL (Short Term)	-	

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapours and oil mist.

Respiratory equipment: No specific recommendations.

Hand protection: Gloves (synthetic rubber, neoprene)

Eye protection:	Wear approved, tight fitting safety glasses where splashing is probable.
Skin protection:	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures:	Wash hands after handling. Observe good chemical hygiene practices. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Light yellow liquid with a characteristic odor; does not mix with water
Colour:	-.
Odour:	Characteristics.
Odour threshold:	Not available.
pH:	Not applicable.
Melting point / freezing point:	Not available.
Boiling point:	Not available.
Flash point:	>180°C ASTM D 92
Evaporation rate:	Not available.
Flammability (solid, gas):	Not applicable.
Explosion limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	0.91 – 0.92 (15°C)
Solubility:	Soluble in Organic solvents.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature (°C):	Not available.
Decomposition temperature (°C):	Not available.
Viscosity:	32 cSt (40°C)
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2. Other information

Other data:	Pour point (°C): -27

SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity**

Reactivity: Not reactive.

10.2. **Chemical stability**

Stability: Stable under normal temperature conditions.

10.3. **Possibility of hazardous reactions**

Hazardous reactions: None known.

10.4. Conditions to avoid

Conditions/materials to avoid: Heat, sparks, flames.

10.5. **Incompatible materials**

Incompatible materials: Strong oxidizing substances.

10.6. **Hazardous decomposition products**

Hazardous decomposition products: None under normal conditions. Hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral):	Based on available data, the classification criteria are not met.
Acute Toxicity (Dermal):	Based on available data, the classification criteria are not met.
Acute Toxicity (Inhalation):	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met
Germ cell mutagenicity:	Based on available data, the classification criteria are not met
Carcinogenicity:	Based on available data, the classification criteria are not met
Reproductive Toxicity:	Based on available data, the classification criteria are not met
STOT - Single exposure:	Based on available data, the classification criteria are not met
STOT - Repeated exposure:	Based on available data, the classification criteria are not met
Aspiration hazard:	Based on available data, the classification criteria are not met

Inhalation: The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Skin contact: The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce sy.

Eye contact: Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn)

Ingestion: Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis.
Specific effects: Used oil may contain harmful contaminants.

SECTION 12: ECOLOGICAL INFORMATION

12.1. **Toxicity**

Ecotoxicity: Not harmful to aquatic organisms. Expected LC/EC50 value > 100 mg/l

12.2. **Persistence and degradability**

Degradability: Potentially degradable, but will persist in the environment for long periods.

12.3. **Bioaccumulative potential**

Bioaccumulative potential: No data available on bioaccumulation.

12.4. **Mobility in soil**

Mobility: Spillages may penetrate the soil causing ground water contamination

12.5. **Results of PBT and vPvB assessment**

PBT/vPvB: Not known.

12.6. **Other adverse effects**

Other adverse effects: Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods
Product / Packaging disposal Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill..

SECTION 14: TRANSPORT INFORMATION

The product is not regulated as dangerous goods under IMDG Code, IATA-DGR and ADR/RID.

	DOT	TDG	IATA	IMDG/IMO
UN Number	Not regulated	Not regulated	Not regulated	Not regulated
Un improper Shipping Name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazards Class	Not regulated	Not regulated	Not regulated	Not regulated

Packing Group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated	Not regulated

14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**
Transport in bulk: Not regulated.

SECTION 15: OTHER INFORMATION

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature.