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

1.1. **Product identifier**

|  |  |  |
| --- | --- | --- |
| Product name: |  | Athen Marine Cyl Oil 5040 |
| Container size: | | - |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application: | |  | | | Marine Cylinder oil. | |
| 1.3. **Details of the supplier of the safety data sheet** | | | | | |  |
| Supplier: | | | | | Four C Marine Lubricants | |
|  |  |  |  |  | A1 Building, Ajman Free Zone, | |
|  |  |  |  |  | Opposite Ajman Port UAE | |
|  |  |  |  |  | Tel: +971 67674732 | |
|  |  |  |  |  | info@4cmarinelubes.com | |
|  |  |  |  |  | www.4cmarinelubes.com | |
|  |  |  |  |  |  | |
| Emergency telephone number | | | |  |  |  |
| Emergency telephone: | | | | | Tel: +971506289926 | |
|  |  |  |  |  |  |  |

**SECTION 2: HAZARDS IDENTIFICATION**

2.1. **Classification of the substance or mixture**

GHS: Not classified.

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.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Mixtures**

Mineral oil and additives. DMSO<3%

No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

**SECTION 4: FIRST AID MEASURES**

4.1. **Description of first aid measures**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Inhalation: | | | | | Move into fresh air and keep at rest. In case of persistent throat irritation or | | |
|  |  |  |  |  | coughing: Seek medical attention and bring these instructions. | | |
| Skin contact: | | | | | Remove contaminated clothing. Rinse skin immediately. Thoroughly rub with | | |
|  |  |  |  |  | liquid soap and wash with lukewarm water. Get medical attention if any | | |
|  |  |  |  |  | discomfort continues. | | |
| Eye contact: | | | | | Immediately flush with plenty of water for up to 15 minutes. Remove any contact | | |
|  |  |  |  |  | lenses and open eyelids widely. If irritation persists: Seek medical attention and | | |
|  |  |  |  |  | bring along these instructions. | | |
| Ingestion: | | | | | DO NOT induce vomiting. Get medical attention immediately. | | |
|  |  | | | | |  |  |
| 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: : Treat Symptomatically

**SECTION 5: FIREFIGHTING**

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- Wear suitable respiratory protective equipment.

fighters:

**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 | | |  | | Avoid discharge into drains. Contact local authorities in case of spillage to | | | |
| precautions: | | | | | 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 | | | | | | | | Store in tightly closed original container in a well-ventilated place. | |
| storage: | | | | | | | |  |  |
|  |  |  |  | | | |  |  | |
| 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: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - |  | Oil mist, -mineral | | | | | | - | |  | 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: | | | | | | | | | | | | | | | | | | | | | | | | | Viscous liquid. |
| Colour: | | |  | | | | |  | | | | | | | | | | | | | | | | | Brown. |
| Odour: | |  | | | | | | | | | | | | | | | | | | | | | | | Mild. |
| Odour threshold: | | | | | | | | | | | | | | | | | | | | | | | | | Not available. |
| pH: |  | | | | | | | | | | | | | |  | | | | | | | | | | Not applicable. |
| Melting point / freezing point: Not available. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boiling point: | | | | | | | | |  | | | | | | | | | | | | | | | | Not available. |
| Flash point: | | | | | | | | | | | | | | | | | | | | | | | | | 274°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: | | | | | | | | | | | | | | | | | | | | | | | | | 0.916 (15°C) |
| Solubility: | | | | |  | | | | | | | | |  | | | | | | | | | | | Soluble in: Organic solvents. |
| Partition coefficient | | | | | | | | | | | | | | | | | | | | | | | | | Not available. |
| (n-octanol/water): | | | | | | | | | | | | | | | | | | |  |  | | | | |  |
| Auto-ignition | | | | | | | | | |  | | | | | | | | | | | | | | | Not available. |
| temperature (°C): | | | | | | | | | | | | | | | | | |  | | | | | | |  |
| Decomposition | | | | | | | | | | |  | | | | | | | | | | | | | | Not available. |
| temperature (°C): | | | | | | | | | | | | | | | | |  | | | | | | | |  |
| Viscosity: | | | | | | | | | | | | | | | | | | | | | | | | | 19.9 mm2/s (100°C) |
|  | | | |  | |  | | | | | | | | | | | | | | |  |  |  | |  |
| Explosive properties: | | | | | | | | | | | | | | | | | | | | | | | | | Not available. |
| Oxidizing properties: | | | | | | | | | | | | | | | | | | | | |  |  | | | Not available. |
| 9.2. **Other information** | | | | | | | | | | | | | | | | | | | | | | | | |  |
| Other data: | | | | | | | | | | | | | | | | | | | | | | |  | | Pour point (°C): -18 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**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. Extremely high or low temperatures. | | | | | | | | | | | |
| 10.5. **Incompatible materials** | | | | | | | |  |  |  |  |
| Incompatible materials: | | | |  | | | | | Strong oxidizing substances. | | |
| 10.6. **Hazardous decomposition products** | | | | | | | | | | |  |
| Hazardous decomposition | | | | | | |  | | None under normal conditions. Hazardous polymerization will not occur. | | |
| products: | | | | | | | | |  |  |  |

**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 sensitization: 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: Inhalation of oil mist or vapours formed during heating of the product may irritate the respiratory system and provoke throat irritation and coughing.

Skin contact: Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis.

Eye contact: May cause temporary eye irritation.

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, contains a small amount of substance which may cause impaired fertility.

**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 is classified as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging: Disposal through approved facilities is recommended.

**SECTION 14: TRANSPORT INFORMATION**

The product is not regulated as dangerous goods under IMDG Code, IATA-DGR and ADR/RID. 14.1. **UN number**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UN-No: | | |  | | | | | | Not regulated. | | | |
| 14.2. **UN proper shipping name** | | | | | | | | | | | | |
|  |  |  | |  |  |  |  |  |  |  |  |  |
| Proper Shipping Name: | | | | | | |  | | Not regulated. | | | |
| 14.3. **Transport hazard class(es)** | | | | | | | | | | |  | |
| Class: | |  | | | | | | | Not regulated. | | | |
| 14.4. **Packing group** | | | | | | | | |  |  |  |  |
| PG: | | | | | |  | | | Not regulated. | | | |
|  |  | | |  |  | | |  |  |  |  |  |
| 14.5. **Environmental hazards** | | | | | | | | |  |  |  |  |
| Marine pollutant: | | | |  | | | |  | Not regulated. | | | |

Environmentally Hazardous Substance: No regulated

14.6. **Special precautions for user:**

Special precautions: 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**

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Handling of used oils:

Protect health - avoid prolonged and repeated skin contact. Wash with soap and water. Protect the environment

* do not pollute drains, water courses or the soil. Contact your local authority for any used oil disposal instructions.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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.

Logo

Description automatically generated with low confidence

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