

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

ALFAREF R 220

Product Number(s):
Company Identification

AEGEAN MARINE PETROLEUM
10 AKTI KONDYLI
GR 18545
PIRAEUS GREECE
Tel : +30/2104586000 Fax : +30/2104586241
Emergency Phone Number : +30/2107793777

SECTION 2 HAZARDS IDENTIFICATION

Main Hazards: Not classified as hazardous

Health Effects: Due to low oral and skin toxicity the product is not hazardous under normal conditions. Used lubricants may contain hazardous foreign substances. In case of dissipation (fog) of the lubricant restrictive measures should be taken.

Environmental Hazards: Not classified as hazardous.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	R Phrases	Concentration %	Classification
Mineral oil	None	0-99	CBI
Additives		1-2	CBI

SECTION 4 FIRST AID MEASURES

Inhalation: In case if dizziness move to fresh air. If symptoms continue ask for medical help.

Skin Contact: Wash with soap and plenty of water. In case of injury from injection of oil with high pressure under the skin seek medical advice immediately.

Eyes Contact: Wipe the product that is on and around the eye with clean bandages. Flush immediately with large amounts of water for at least 15 minutes keeping the eyes open until the rash goes away. If rash persists seek medical attention.

Ingestion: Do not induce vomiting, keep calm and warm and seek medical assistance.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: Do not use water jet..

Special Hazards of Product: This product may give rise to hazardous fumes such as carbon monoxide (CO) in a fire.

Protective Equipment for Fire-Fighting: Self contained breathing masks, special gloves, eye masks, etc. Also go to paragraph 4 for first aid.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: See section 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION..

Ground Spillages: The product is poorly absorbed onto soils or sediments. Recover by shoveling the grease from the ground Dispose according to legislation..

Water Spillages: The product is insoluble in water. If released to water the product will float.

SECTION 7 HANDLING AND STORAGE

Handling: During handling appropriate measures should be taken to avoid possible leakage by use of appropriate protective equipment.

Storage: The product should be stored in a cool, dry, well-ventilated place away from heating points and strong oxidizing factors. The container should be sealed in a dry place.

Packaging: Suggested pale material is high density poly-ethylene (HDPE) Also avoid using PVC for containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Inhalation Protection: Make sure that working areas are well ventilated. For air dissipation of lubricants (TWA-8hour working day) 5cm³ according to ACGIH. When the concentration in air cannot be controlled and there is possibility of exceeding the limit of professional exposure, breathing masks with molecular pro-filter and filter for organic fumes must be used.

Hand Protection: PVC gloves should be worn. Hygiene measures should be taken such as hand wash before eating or smoking.

Eye protection: Protective eye-masks should be worn if there is possibility of contact with the eyes.

Body Protection: Avoid continues contact with skin. Wear boiler suits in order to minimize skin contact. When the concentration in air cannot be controlled or may exceed limits, use appropriate breathing devices.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Color: Bright and Clear

Physical State: Liquid

Odor: Mild hydrocarbon smell

Density : 1.093 at 20°C

Kinematic Viscosity,Cst @ 40°C: 220

Pour Point : -36 °C

Flash Point: 284 °C

Auto ignition Temperature: >275°C

IP 346 DMSO Extract,%: <3

Note: the above properties do not constitute a specification.

SECTION 10 STABILITY AND REACTIVITY

Stability(Thermal, light): Stable under normal conditions of use.

Conditions to Avoid: Store away from heat sources, bare flame, other flammable areas and direct sunlight.

Materials to Avoid: Avoid strong oxidizing agents such as chlorine and high concentrations of oxygen.

Hazardous decomposition Products: Combustion will generate: smoke, possibly thick and choking, resulting in zero visibility.

SECTION 11 TOXICOLOGICAL DATA

Acute Toxicity: Low order of acute toxicity

Chronicle Toxicity: No chronic effect expected.

SECTION 12 ECOLOGICAL INFORMATION

Mobility: The product is insoluble in water. If released to water the product will float. The product is poorly absorbed onto soils or sediments.

Degradability: The product is expected to be resistant to biodegradation.

Bio-accumulation: Product is not expected to bio-accumulate.

SECTION 13 DISPOSAL CONSIDERATIONS

Product / Container Disposal: The used product and containers should be disposed of according to national or local legislation and according to the regulations of the European Union to accredited contractors.

SECTION 14 TRANSPORT INFORMATION

UN CLASS: Not Classified as Hazardous.

ADR/RID CLASS: Not Classified as Hazardous.

IATA CLASS: Not Classified as Hazardous.

SECTION 15 REGULATORY INFORMATION

Labelling Information: No statutory requirements on labeling

Symbols: None

R-Phrases: None

S-Phrases: None

SECTION 16 OTHER INFORMATION

The information included in the present MSDS is collected from data observed in real tests, comparisons with similar products and from data obtained by suppliers.

The information relates only to the particular product designated and may not be valid if the product is used in combination with other materials or another manufacturing process. Such information is to the best of AEGEAN. Knowledge believed to be accurate and reliable as of the date indicated.

It is to the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use, as well as for the conditions of use of the material.