

MATERIAL SAFETY DATA SHEET

ALFAREF R SERIES

Prepared in accordance with EU Regulation 1907/2006 and the Directive 121/2006



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: ALFAREF R 32, 46, 68, 100

Intended Use: Compressor Fluids

Company Identification:

supplier:

AEGEAN MARINE PETROLEUM

10 AKTI KONDYLI

GR 18545

PIRAEUS GREECE

Tel : +30/2104586000 Fax : +30/2104586245

Emergency Phone Number : 112

SECTION 2 HAZARDS IDENTIFICATION

MAIN HAZARDS

Not classified as hazardous in accordance with directive 1999/45/EC.

HEALTH EFFECTS

Due to low oral and skin toxicity the product is not hazardous under normal conditions. Nevertheless continuous and repeated skin contact may cause dermatitis as most mineral oils, lubricants. 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

Component	CAS No	Concentration %	R Phrases
Mineral Oil	CBI	0-99	
Additives	CBI	1-2	

SECTION 4**FIRST AID MEASURES****INHALATION**

In case of dizziness move to fresh air. If symptoms continue ask for medical help.

SKIN CONTACT

Wash contact areas with soap and plenty of water. In case of appearance & persistence of skin rash, seek medical advice. In case of injury from injection of oil with high pressure under the skin seek medical advice immediately.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

Do not induce vomiting, keep calm and warm. Seek medical assistance.

SECTION 5**FIRE FIGHTING MEASURES****EXTINGUISHING MEDIA**

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

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire-fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment.

SPILL MANAGEMENT

Land Spill: Recover by pumping with suitable pump. Contain spilled liquid with sand or earth or with a suitable absorbent. Dispose according to legislation.

Water Spill: Contain the spillage with floating barriers and other suitable absorbents. Also if accepted by the local authorities, suitable solvents may be used.

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

PACKAGING

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

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTION

Inhalation Protection: Make

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

Chemical resistant gloves are recommended. Nitrile, Viton, CEN standards EN 420 and EN 374 provide general requirements and lists of glove types.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

Chemical/oil resistant clothing is recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid
Form: Clear
Color: Bright and Clear
Odour: Mild hydrocarbon smell

Graduation in SAE	32	46	68	100
Specific Gravity @ 20° C	0.980	0.977	0.977	0.969
Viscosity 40° C, cst	32	46	68	100
Pour Point °C	-41	- 46	-39	-28
Flash Point °C (COC)	230°C	258°C	270°C	260°C
Auto ignition Temperature	>270°C			
Vapor Pressure (kPa)	<1			

IP 346 DMSO Extract, %	<3
Solubility in water	N/A

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 INFORMATION
-------------------	----------------------------------

Acute Toxicity	Low order of acute toxicity.
Chronicle Toxicity	Reduction of skin fat that may result in dermatitis can be cause from excessive exposure to mineral oils. Irritation of skin and eyes is possible with contact of used oils which contain foreign dangerous substances.

SECTION 12	ECOLOGICAL INFORMATION
-------------------	-------------------------------

Mobility	In the case of environmental release the product will be absorbed into soil and sediment. In the case of water release it will remain and expand on the surface.
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.
IMO CLASS	Not Classified as Hazardous.
IATA CLASS	Not Classified as Hazardous.

SECTION 15**REGULATORY INFORMATION**

Labeling Information	No statutory requirements on labeling
Symbols	None
R-Phrases	None
S-Phrases	None

SECTION 16**OTHER INFORMATION**

Date Issued: 20/02/2010

All information contained in this Material Safety Data Sheet and, in particular, the health and safety and environmental information is accurate to the best of our knowledge and belief as at the date of issue specified. However, the Company makes no warranty or representation, express or implied, as to the accuracy or completeness of such information.

The provision of this Material Safety Data Sheet is not intended, of itself, to obviate the need for all users to satisfy themselves that the product described is suitable for their individual purposes and that the safety precautions and environmental advice are adequate for their individual purposes and situation. Further, it is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product.

The company accepts no responsibility for any injury, loss or damage, consequent upon any failure to follow the safety and other recommendations contained in this Material Safety Data Sheet, nor from any hazards inherent in the nature of the material, nor from any abnormal use of the material.
