



**Safety Data Sheet**  
**complying with Regulation 1907/2006/EC (REACH**  
**Regulation, 453/2010/EC and Regulation No 1272/2008/EC**  
**(CLP)**

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** ALFAGEAR 68  
ALFAGEAR 100  
ALFAGEAR 150  
ALFAGEAR 220  
ALFAGEAR 320  
ALFAGEAR 460  
ALFAGEAR 680
- **Registration number:**  
 Substances contained in the mixture have already (pre)-registered by the suppliers.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 No relevant identified uses-mixture of substances.
- **Application of the substance / the mixture** Lubricant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Aegean Oil S.A  
 10, Akti Kondyli,  
 Piraeus, Greece, 185 45  
 Tel: (+30) 210 4586000  
 Fax: (+30) 210 4586244  
 E-mail: aegean-lubes@aegeanoil.gr
- **1.4 Emergency telephone number:** Emergency telephone number: 112

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation EC No 1272/2008 CLP**  
 The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Not applicable.
- **2.2 Label elements**
- **Labelling according to Regulation EC No 1272/2008 CLP** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
 Contains Long-chain alkyl amine. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

GB

(Contd. on page 2)

# Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH)  
Regulation, 453/2010/EC and Regulation No 1272/2008/EC  
(CLP)

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

**Trade name:** ALFAGEAR 68  
ALFAGEAR 100  
ALFAGEAR 150  
ALFAGEAR 220  
ALFAGEAR 320  
ALFAGEAR 460  
ALFAGEAR 680

(Contd. of page 1)

## SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Lubricant
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
No special measures required.  
Take affected persons out into the fresh air.
- **After inhalation:** Seek medical treatment in case of complaints.
- **After skin contact:**  
Wash the skin immediately with soap and water.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Never give anything by mouth to an unconscious person.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.  
Seek immediate medical advice.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO)

(Contd. on page 3)

**Safety Data Sheet**  
**complying with Regulation 1907/2006/EC (REACH**  
**Regulation, 453/2010/EC and Regulation No 1272/2008/EC**  
**(CLP)**

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

**Trade name:** ALFAGEAR 68  
ALFAGEAR 100  
ALFAGEAR 150  
ALFAGEAR 220  
ALFAGEAR 320  
ALFAGEAR 460  
ALFAGEAR 680

(Contd. of page 2)

- Carbon dioxide (CO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Use of protective clothes and respiratory device is being recommended in case of fire.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **6.1.1 For non-emergency personnel**  
Keep away from ignition sources.  
Ensure sufficient ventilation.
- **6.1.2 For emergency responders**  
Use safety goggles, in case of contact with the eyes.  
Use chemicals resistant gloves.  
Use antistatic and slip resistant boots.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically with a non combustible material such as earth or sand.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Avoid contact with hot product
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

(Contd. on page 4)

# Safety Data Sheet

**complying with Regulation 1907/2006/EC (REACH)**  
**Regulation, 453/2010/EC and Regulation No 1272/2008/EC**  
**(CLP)**

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

**Trade name: ALFAGEAR 68**  
 ALFAGEAR 100  
 ALFAGEAR 150  
 ALFAGEAR 220  
 ALFAGEAR 320  
 ALFAGEAR 460  
 ALFAGEAR 680

(Contd. of page 3)

- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

- **Penetration time of glove material**  
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:** Not required under normal conditions of use.
- **Body protection:** Not required under normal conditions of use.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Light-coloured to brown
  - **Odour:** Characteristic of lubricants
  - **Odour threshold:** Not determined
- |                  |                |
|------------------|----------------|
| <b>pH value:</b> | Not determined |
|------------------|----------------|

(Contd. on page 5)

**Safety Data Sheet**  
**complying with Regulation 1907/2006/EC (REACH)**  
**Regulation, 453/2010/EC and Regulation No 1272/2008/EC**  
**(CLP)**

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

**Trade name: ALFAGEAR 68**  
**ALFAGEAR 100**  
**ALFAGEAR 150**  
**ALFAGEAR 220**  
**ALFAGEAR 320**  
**ALFAGEAR 460**  
**ALFAGEAR 680**

(Contd. of page 4)

· <b>Melting point/Melting range:</b>	Not determined
· <b>Boiling point/Boiling range:</b>	Not determined
· <b>Pouring point</b>	According method ASTM D-97 ALFAGEAR 68: -21 °C ALFAGEAR 100: -18 °C ALFAGEAR 150: -18 °C ALFAGEAR 220: -15 °C ALFAGEAR 320: -12 °C ALFAGEAR 460: -12 °C ALFAGEAR 680: -9 °C
· <b>Flash point:</b>	According Method ASTM D-92 ALFAGEAR 68: 215 °C ALFAGEAR 100: 220 °C ALFAGEAR 150: 225 °C ALFAGEAR 220: 230 °C ALFAGEAR 320: 240 °C ALFAGEAR 460: 245 °C ALFAGEAR 680: 255 °C
· <b>Flammability (solid, gaseous):</b>	Not applicable
· <b>Auto-ignition temperature:</b>	Not determined
· <b>Decomposition temperature:</b>	Not determined
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
· <b>Vapour pressure:</b>	Not determined
· <b>Density:</b>	Not determined
· <b>Relative density</b>	Not determined
· <b>Vapour density</b>	Not determined
· <b>Evaporation rate</b>	Not determined

(Contd. on page 6)

**Safety Data Sheet**  
complying with Regulation 1907/2006/EC (REACH)  
Regulation, 453/2010/EC and Regulation No 1272/2008/EC  
(CLP)

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

**Trade name:** ALFAGEAR 68  
ALFAGEAR 100  
ALFAGEAR 150  
ALFAGEAR 220  
ALFAGEAR 320  
ALFAGEAR 460  
ALFAGEAR 680

(Contd. of page 5)

- |   |   |
|---|---|
| · <b>Solubility in / Miscibility with water:</b>  | Not miscible or difficult to mix.   |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined  |
| · <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | Not determined  |
| <b>Kinematic:</b>                                 | According method ASTM D445 at 40°C<br>ALFAGEAR 68: 68 cSt<br>ALFAGEAR 100: 100 cSt<br>ALFAGEAR 150: 150 cSt<br>ALFAGEAR 220: 220 cSt<br>ALFAGEAR 320: 320 cSt<br>ALFAGEAR 460: 460 cSt<br>ALFAGEAR 680: 680 cSt |
| · <b>9.2 Other information</b>                    | No further relevant information available.  |

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
Stable at environment temperature.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Oxidising agents
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

GB

(Contd. on page 7)



**Safety Data Sheet**  
**complying with Regulation 1907/2006/EC (REACH)**  
**Regulation, 453/2010/EC and Regulation No 1272/2008/EC**  
**(CLP)**

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

**Trade name:** ALFAGEAR 68  
 ALFAGEAR 100  
 ALFAGEAR 150  
 ALFAGEAR 220  
 ALFAGEAR 320  
 ALFAGEAR 460  
 ALFAGEAR 680

(Contd. of page 6)

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)		
Dermal	LD50	151515 mg/kg
Inhalative	LC50/4 h (vapours)	253 mg/l

- **Primary irritant effect:**

- **on the skin:** No irritating effect.
- **on the eye:** No irritating effect.
- **Sensitisation:** No sensitising effects known.

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:** Not known to be hazardous to water.

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

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

GB

(Contd. on page 8)

# Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH)  
Regulation, 453/2010/EC and Regulation No 1272/2008/EC  
(CLP)

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

**Trade name:** ALFAGEAR 68  
 ALFAGEAR 100  
 ALFAGEAR 150  
 ALFAGEAR 220  
 ALFAGEAR 320  
 ALFAGEAR 460  
 ALFAGEAR 680

(Contd. of page 7)

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**



Dispose according to National Regulations.

- **Uncleaned packaging:**
- **Recommendation:**  
 Disposal must be made according to official regulations.  
 Packaging may be reused or recycled after cleaning.

## SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	-

GB

(Contd. on page 9)



# Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH)  
Regulation, 453/2010/EC and Regulation No 1272/2008/EC  
(CLP)

Printing date 14.04.2015

Version number 1

Revision: 14.04.2015

**Trade name:** ALFAGEAR 68  
ALFAGEAR 100  
ALFAGEAR 150  
ALFAGEAR 220  
ALFAGEAR 320  
ALFAGEAR 460  
ALFAGEAR 680

(Contd. of page 8)

## SECTION 15: Regulatory information

### · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH Regulation 1907/2006/EC

Regulation 453/2010/EC

CLP Regulation 1272/2008/EC

Constituents of the mixture that fall within the scope of REACH Regulation 1907/2006/EC, have been (pre)-registered from their suppliers.

### · National regulations:

### · Other regulations, limitations and prohibitive regulations

### · Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

### · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Department issuing MSDS:



SUSTCHEM Engineering Ltd

REACH &amp; Chemical Services Department

144, 3rd Septemvriou, GR 112 51, Athens, Greece

Tel.: +30 210 8252510-4 Fax: +30 210 8252575

E-mail: [info@suschem.gr](mailto:info@suschem.gr)Website: [www.sustchem.gr](http://www.sustchem.gr)

### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent