

## Material Safety Data Sheet

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

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### ELIN TUO ISO 100

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

##### 1.1 Product identifier

Trade name: **ELIN TUO ISO 100**

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 the chemical product is exempted from REACH Regulation, 1907/2006/EC.

Application of the substance : **Turbine oil** .

##### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: **ELINOIL S.A. – HELLENIC PETROLEUM COMPANY S.A**  
33, PIGON STR. 145 64 KIFISSIA  
telephone : 0030 21062 41 650  
fax : 0030 210 62 41 659

##### 1.4 Emergency telephone number:

Emergency telephone number: 0030 6984 618 718

#### 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

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Hazard statements Void  
2.3 Other hazards  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

### **SECTION 3: Composition / information on ingredients**

#### **3.1 Substances**

Not applicable. The product is not a substance

#### **3.2 Chemical characterisation: Mixtures**

Description: Lubricant

Ingredients: 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.

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#### **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: Fire fighting 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) , 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 measurement**

#### **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 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**

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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 .

**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 contains any relevant quantities of material with critical values that have to monitored at the workplace .

##### **8.2 Exposure controls**

Personal protective equipment : General  
protective and hygiene measures : The usual  
precautionary measures are to be adhered to, when handling chemicals .

Respiratory protection : Not required

Protection of hands : Protective gloves

Eye Protection :

In processing and repackaging where is possible the eye-contact, ear safety glasses .

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Body protection : Not required under normal conditions of use.

#### SECTION 9 : Physical and chemical properties

<ul style="list-style-type: none"> <li>· <b>9.1 Information on basic physical and chemical properties</b></li> <li>· General Information</li> <li>· Appearance:               <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Form:</td> <td>Liquid</td> </tr> <tr> <td style="padding-left: 20px;">Colour:</td> <td>Light-coloured to brown</td> </tr> </table> </li> <li>· Odour: Characteristic of lubricants</li> <li>· Odour threshold: Not determined</li> </ul>		Form:	Liquid	Colour:	Light-coloured to brown
Form:	Liquid				
Colour:	Light-coloured to brown				
· pH value:	Not determined				
· Melting point/Melting range:	Not determined				
· Boiling point/Boiling range:	Not determined				
· Flash point:	224°C typical according <b>ASTM D-92</b>				
· Flammability (solid, gaseous):	Not applicable				
· Auto-ignition temperature:	Not determined				
· Decomposition temperature:	Not determined				
· Self-igniting:	Product is not selfigniting.				
· Danger of explosion:	Product does not present an explosion hazard.				
· Explosion limits: <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Lower:</td> <td>Not determined</td> </tr> <tr> <td style="padding-left: 20px;">Upper:</td> <td>Not determined</td> </tr> </table>	Lower:	Not determined	Upper:	Not determined	
Lower:	Not determined				
Upper:	Not determined				
· Vapour pressure:	Not determined				

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· Density:	0,889 Kg/L (ASTM D-4052) @ 15°C typical
· Relative density	Not determined
· Vapour density	Not determined
· Evaporation rate	Not determined
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity:	
Dynamic:	Not determined
Kinematic:	100 CST typical @ 40°C ( ASTM D 445 )
· <b>9.2 Other information</b>	<b>No further relevant information available.</b>

### 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.

### SECTION 11 : Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritating effect.

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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.

### SECTION 13 : Disposal consideration

#### **13.1 Waste treatment methods**

Recommendation

Dispose according to National Regulation .

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations. Packaging may be reused or recycled after cleaning.

### SECTION 14 : Transport information





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Other regulations, limitations and prohibitive regulations

**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.

##### **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)