**Product benefits**

- can be used for all types of engines
- protects against cooling
- protects against corrosion
- protection against overheating
- protection against cavitation
- does not contain nitrite, amine and phosphate compounds

**Applications**

EVOX Extra G 48 concentrate was developed to protect car, truck and bus engines of both ferrous and aluminium construction against corrosion and frost damage. EVOX Extra G 48 concentrate contains a blend of inhibitors designed to give a high degree of corrosion protection to engine components such as radiators, cylinder blocks/heads and water pumps.

EVOX Extra G 48 concentrate must be diluted with water before use. It is hard water compatible and can be mixed with tap water before filling into the cooling system to give solutions in the concentration range of 33 to 50% by volume. Do not use without dilution!

*For preparation of the coolant use clean, not too hard water. Waste water from mining, sea water, brackish, brine, industrial waste water are all unsuitable. The analysis of the water should not exceed the following limits:

<table>
<thead>
<tr>
<th>Water hardness</th>
<th>Chlorid content</th>
<th>Sulphate content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20°dH (0-3.6 mmol/l)</td>
<td>max. 100 ppm</td>
<td>max. 100 ppm</td>
</tr>
</tbody>
</table>

Should the analysis of the water exceed the approval limits, then it has to be suitably treated, for example by mixing with pure, distilled or deionised water. Excessive chloride or sulphate level can be corrected in this way.

EVOX Extra G 48 concentrate should possibly not mixed with other brands of silicate free, OAT engine coolants. Most coolant blends are based on carefully balanced mixtures of various corrosion inhibitors. Mixing of coolants with different inhibitor packages can lead to loss of corrosion protection.

**Dilution chart**

<table>
<thead>
<tr>
<th>Conc. (%)</th>
<th>Water (%)</th>
<th>Freeze protection</th>
<th>Viscosity 0 °C</th>
<th>Viscosity 80 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>88</td>
<td>-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>75</td>
<td>-12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>67</td>
<td>-18</td>
<td>3.0-5.0</td>
<td>0.5-0.8</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
<td>-38</td>
<td>7.0-10.0</td>
<td>0.9-1.1</td>
</tr>
</tbody>
</table>

Manufactured and distributed by: MOL-LUB Ltd.
H-1986 Budapest, MOL Plc. Tel: +36-1-4640236 Fax: +36-1-4640304 E-mail: lubricants@mol.hu

Latest revision: 2013.06.07 9:08

Version 039.000.005
Specifications and approvals

SAE J 1034
BS 6580:2010
BS 6580:1992 (Rev. 1997)
ASTM D 3306
ASTM D 4985
AFNOR R-15-601
KHD: H-LV 01610188
Saab: 690 1599
German Army: TL 6850-0038/1
VW/Audi/Seat/Skoda TL 774-C (VW code G11)
MB-Approval 325.0
Opel/GM B 0400240
BMW N 600 69.0
Porsche for 924, 928, 944, 968
MAN 324 Typ NF
MAN 324 Typ NF für Pritarder Einsatz
Scania TB 1451
MTU MTL 5048
Caterpillar SEBU6250-12
Jenbacher Ti 1000-0201
Arnsberg 84.12.22.63.-2001-2
ZETOR
Deutz H-LV 0161 0188
Liebherr Machines Bulle SA TLV 035
Liebherr Machines Bulle SA TLV 23009 A
ÖNORM V 5123

Product description

EVOX Extra G 48 concentrate is an antifreeze engine coolant concentrate based on ethylene glycol. It contains a hybrid corrosion inhibitor package with salts of organic acids and silicates.

Diluted in appropriate proportion with water could be used for filling up the cooling system of internal combustion engines.

EVOX Extra G 48 concentrate is free of nitrites, amines and phosphates. Completed with bittering component to prevent incidental swallowing.

[OAT (Organic Additive Technology)]
Typical properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Typical values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>blue</td>
</tr>
<tr>
<td>Flash point (Cleveland) [°C]</td>
<td>128</td>
</tr>
<tr>
<td>pH value</td>
<td>7.1</td>
</tr>
<tr>
<td>Alkalinity [ml 0.1M HCl/10 ml]</td>
<td>14</td>
</tr>
<tr>
<td>Refractive index at 20 °C</td>
<td>1.433</td>
</tr>
<tr>
<td>Freezing point (1:2 distilled water) [°C]</td>
<td>-19</td>
</tr>
<tr>
<td>Boiling point [°C]</td>
<td>170</td>
</tr>
<tr>
<td>Water content (KF) [mass %]</td>
<td>3.0</td>
</tr>
<tr>
<td>Density at 20 °C [kg/m3]</td>
<td>1122</td>
</tr>
</tbody>
</table>

The characteristics in table are typical values of the product and do not constitute a specification.

Storage and handling instructions

Should be stored in its original packaging with airproof sealing, separately from foods, in a place protected against water and sunshine, locked away from children.

In the original container under the recommended storage conditions: 48 months

Inflammability hazard: Grade III.

Recommended storage temperature: -13°C - +30°C

Ordering information

SAP code and packaging:
19002256   60 l steel drum (for order only)
19001451   216.5 l steel drum

Order booking (toll-free):

Phone: 80/201-331 (between 07-16 h weekdays)