1. Identification of substance

Trade name: ECOCOOL 600 NBF C
Recommended use: Water-misible MWF
Manufacturer/Supplier: FUCHS LUBRICANTS (CHINA) LTD.
No.888, Jiaxiu Road, High Tech Zone, Nanxiang, Jiading, Shanghai, 201802
Tel: +86 21 3912 2000
Fax: +86 21 3912 2100
Issued by: Technical department, Tel: +86 21 3912 2038
24 Hr Emergency telephone: +86 21 3912 2001

2. Hazards identification

Hazard designation: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept.

Information pertaining to particular dangers for man and environment: This product is water polluting, see item 12.

Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method of 1999/45 EC concerning specific data of compounds.

Additional information: This product is applied only as solution or emulsion in water.

3. Composition/Data on components

Chemical characterization: Mixture of water, AW additive, corrosive preventative additive and mineral oil.

Dangerous components:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Designation</th>
<th>Content [%]</th>
<th>Index</th>
<th>Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amine/Boric condensation</td>
<td>10-18</td>
<td>Xi</td>
<td>R 36/38</td>
</tr>
<tr>
<td></td>
<td>Amine/Fatty acid condensation</td>
<td>5-10</td>
<td>Xi</td>
<td>R 38</td>
</tr>
<tr>
<td></td>
<td>Di-glycol</td>
<td>0.1-1</td>
<td>Xn</td>
<td>R 22</td>
</tr>
</tbody>
</table>

Additional information:
Contains 0.1-5.4 % boric acid (SVHC List).
For the wording of the listed risk phrases refer to section 16.

4. First aid measures

General information: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.

After inhalation: Supply fresh air; Consult doctor in case of symptoms (eventually by inhaling the overheated product).
After skin contact: Wash with running water and soap thoroughly.
After eye contact: Rinse opened eye for several minutes under running water.
After swallowing: In case of persistent symptoms consult doctor.

Information for doctor: Hand over this safety data sheet to the physician with the special comment “water-misible coolant”.

ECOCOOL 600 NBF C
5. Fire fighting measures
Suitable extinguishing agents: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: Water with a full water jet.

Protective equipment: In case of fire fighting: wear self containing breathing apparatus.

Additional information: Generally this product is not burnable on account of its water-content.

6. Accidental release measures
Person-related safety precautions: Particular danger of slipping on leaked/spilled product.
Measures for environmental protection: Do not allow to enter drainage system, surface or ground water. Prevent from spreading (e.g. by damming-in or oil barriers). Do not allow to enter the ground/soil.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

Additional information: The product doesn’t release dangerous material.

7. Handling and storage
Handling:
Information for safe handling: Prevent formation of aerosols. Don’t eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.
Information about protection against explosions and fires: Don’t heat up to temperatures close to the flash point.

Storage:
Requirements to be met by storerooms and containers: Keep original container tightly in dry, cool, well-ventilated place. Protect from heat resource and direct sunlight. Store under room temperature.
Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Keep container tightly sealed.

Storage class: Class according to regulation on inflammable liquids: Void.
8. Exposure controls and personal protection

Additional information about design of technical systems: No further data, see item 7.

Components with critical values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Designation</th>
<th>Content [%]</th>
<th>Type</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
</table>

The product itself does not contain any relevant quantities of materials with critical value that have to be monitored at the workplace.

Additional information: The lists that were valid during the compilation were used as basis.

Personal protective equipment: General protective and hygienic measures.

The usual precautionary measures should be adhered to in handling the chemicals and the mineral oil products. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Avoid close or long term contact with the skin. Use skin protection cream for preventive skin protection. Do not carry cleaning cloths impregnated with the product in trouser pockets.

Breathing equipment: Not required.

Protection of hands: Protective gloves, where permitted in acc. to safety directions.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective glovner and has to be observed.

Eye protection: Tightly sealed safety glasses.

Body protection: Protection work clothing.

9. Physical and chemical properties

Form: Fluid
Colour: Slightly yellow
Smell: Characteristic
Melting point/Melting range: Not determined
Boiling point/Boiling range: Not applicable or not determined
Flash point: Not applicable
Self- inflammability: Product is not selfigniting.
Danger of explosion: Product is not explosive.
Density at 15 °C: 0.99 g/cm³
Solubility in / Miscibility with water: Miscible
pH value(10% Emulsion ): 9.75

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous products of composition: No dangerous decomposition products known.
11. Toxicological information
Acute toxicity: Primary irritant effect:
On the skin: The unsolved product could cause irritation on mucous membranes or skin, but this effect is not to be expected in solution or emulsion.
On the eye: Irritant effect possible.
Sensitization: No sensitizing effect known.
When used and handled according to specification, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological information
Behaviour in environmental systems: Mobility and bioaccumulation potential: No data available.
Ecotoxicological effects: Behaviour in sewage processing plants: The product is soluble in the waste water.

General note:
Do not allow to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.

13. Disposal considerations
Product:
Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations. When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed. Delivery of waste oil only to officially authorized collectors.

Contaminated packagings:
Recommendation: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Small one-way packagings have to be disposed according to the local regulations.

14. Transport information
Transport/additional information: No dangerous good acc. to dangerous goods/transport directions.
15. Regulatory information

Designation according to EU guidelines: Observe the normal safety regulations when handling chemicals or mineral oil products. The product is not subject to identification regulations under EC Directives until 2008/1272/EC (1. CLP-ATP) and Ordinance on Hazardous Materials. Concentration of dangerous compounds are not above the value for the classification.

Code letter and hazard designation of product: Xi Irritant.

Risk phrases: 36/38 Irritating to eyes and skin.

Safety phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
              28 After contact with skin, wash immediately with plenty of water.
              61 Avoid releasing to the environment.

Substances of very high concern (SVHC) according to REACH, Article 31: Boric Acid

National regulations: Local regulations must be kept.

16. Other information

Reference:
1) GB 16483 General rules for preparation of chemical safety data sheet(CSDS)
2) GB 13690 Classification and labels of dangerous chemical substances commonly used
3) GB 6944 Classification and signal of dangerous goods
4) GB/T 15098 Classification rule of dangerous goods transportation packaging style
5) UN《Suggestion book of dangerous goods transportation》〈UNRTDG〉
6) 《Regulation of dangerous goods transportation management》（issued by National Railway Dept.）1995

Validity: The former version is invalid when new version is issued.

Relevant phrases for the hazardous components in item 3.
Xi Irritant.
Xn Harmful.
22 Harmful if swallowed.
36/38 Irritating to eyes and skin.
38 Irritating to skin.

All ingredients are listed in the European Inventories. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This data sheet is a safety data sheet according to 1907/2006/EC, article 31. For products which are not subject to classification according to EU lists this data sheet is made on a voluntary base.