SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:
Name: MOTOCOOL EXPERT -25.
Product code: 101087.

Company/undertaking identification:
Registered company name: MOTUL.
Address: Chemin du Corps de Garde. 77360. VAIRES SUR MARNE. FRANCE.
Telephone: 33.1.64.72.86.00. Fax: 33.1.64.72.86.25.
Email: hse_motul@motul.fr
Emergency telephone: +44 (0)208 762 8322.
Association/Organisation:.
Use of the substance/preparation:
Cooling liquid

2 - HAZARDS IDENTIFICATION

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site Possibility of noxious effects with symptoms of slight poisoning by swallowing.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

<table>
<thead>
<tr>
<th>INDEX</th>
<th>CAS</th>
<th>EC</th>
<th>Name</th>
<th>Symb.</th>
<th>R:</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>603-027-00-1</td>
<td>107-21-1</td>
<td>203-473-3</td>
<td>ETHYLENE GLYCOL</td>
<td>Xn</td>
<td>22</td>
<td>25 &lt;= x % &lt; 50</td>
</tr>
</tbody>
</table>

Other substances representing a hazard:
No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:
No known substance in this category present.

Other substances with occupational exposure limits:
No known substance in this category present.

Other components:
Notes H and L apply.

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:
Remove the victim to fresh air. If the symptoms persist, call a physician.

In the event of splashes or contact with eyes:
Wash immediately and abundantly with water, including under the eyelids.

In the event of splashes or contact with skin:
Immediately remove all soiled clothing.
Wash immediately and abundantly with soap and water.

In the event of swallowing:
If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital. Show him the label.

[Adapted from Motul's Safety Data Sheet]
Rinse the mouth with water then drink a lot of water.
Do not induce vomiting without medical advice.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media:
- Dry agent, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:
- High volume water jet

Special protective equipment for fire-fighters:
- Wear a self-contained breathing apparatus

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:
- Do not breathe fumes.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:
Consult the safety measures listed under headings 7 and 8.

Environmental precautions:
- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
- Prevent any material from entering drains or waterways.
- Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).
- If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

Methods for cleaning up:
- Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Handling:
- Avoid contact with skin and eyes.
- Use only in well-ventilated areas.

Fire prevention:
- Prevent access by unauthorised personnel.
- No smoking.

Recommended equipment and procedures:
- For personal safety, see §8.
- Observe precautions stated on label and also industrial safety regulations.
- Do not breathe fumes, vapour, spray.

Prohibited equipment and procedures:
- Smoking, eating and drinking are prohibited in premises where the preparation is used.
- Never open the packages under pressure.

Storage:
- Keep away from food and drink, including those for animals.
- Store between 5°C and 40°C in a dry, well ventilated place.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Exposure limit values per INRS ED 984:

<table>
<thead>
<tr>
<th>Country</th>
<th>MAK-ppm</th>
<th>MAK-mg/m3</th>
<th>VME-ppm</th>
<th>VME-mg/m3</th>
<th>VLE-ppm</th>
<th>VLE-mg/m3</th>
<th>Notes</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>107-21-1</td>
<td>1</td>
<td>10</td>
<td>26</td>
<td>C.*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>France</td>
<td>VME-ppm</td>
<td>VME-mg/m3</td>
<td>VLE-ppm</td>
<td>VLE-mg/m3</td>
<td>Notes</td>
<td>TMP N°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>107-21-1</td>
<td>20</td>
<td>52</td>
<td>40</td>
<td>104</td>
<td>*</td>
<td>84</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>
**Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:**

<table>
<thead>
<tr>
<th>EC</th>
<th>VME-mg/m³</th>
<th>VME-ppm</th>
<th>VLE-mg/m³</th>
<th>VLE-ppm</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1</td>
<td>52</td>
<td>20</td>
<td>104</td>
<td>40</td>
<td>Peau</td>
</tr>
</tbody>
</table>

**Exposure limit values (2003-2006):**

- **Germany/AGW**
  - AGW: 10 ml/m³
  - AGW: 26 mg/m³
  - Faktor: 2(I)
  - Bemerkungen: DFG, H, Y

- **UK/WELs**
  - TWA: 10 mg/m³
  - STEL: -
  - Ceiling: -
  - Definition: -
  - Criterion: -

- **UK/OES**
  - TWA: 10 mg/m³
  - STEL: -
  - Ceiling: -
  - Definition: -
  - Criterion: -

- **ACGIH/TLV**
  - TWA: -
  - STEL: -
  - Ceiling: 100
  - Definition: -
  - Criterion: -

**Respiratory protection:**
- Breathing apparatus only when aerosol or spray are formed.

**Hand protection:**
- Type of gloves recommended: Nitrile

**Eye and face protection:**
- Safety goggles

**Skin protection:**
- Face shield, boots, fluid-impermeable clothing, safety shoes, if needed.

---

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

**General information:**
- Physical state: fluid liquid
- Odor: Weak

**Important health, safety and environmental information:**
- pH of the substance or preparation: slightly basic.
- When a pH measure is possible, it has a value of: 8.40
- Flash point interval: not relevant.
- Vapour pressure: not relevant.
- Density: 1
- Water solubility: Soluble.

---

**10 - STABILITY AND REACTIVITY**

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet.

**Conditions to avoid:**
- Keep away from heat and from sources of ignition

**Materials to avoid:**
- Strong oxidants

**Hazardous decomposition products:**
- Toxic by-products such as carbon monoxide

---

**11 - TOXICOLOGICAL INFORMATION**

No data is available regarding the preparation itself.

**In the event of exposure by inhalation:**
- Inhalation of fumes can cause irritation of the respiratory system of very sensitive individuals.

**In the event of swallowing:**
- Low toxicity when swallowed

**In the event of splashes or contact with skin:**
- Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non allergic contact dermatitis and absorption through the skin.

**In the event of splashes or contact with eyes:**
- Light irritation of the eyes
12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

Mobility:
Water soluble

Persistence and degradability:
Biodegradable product.

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:
Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:
Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

16 01 14 * antifreeze fluids containing dangerous substances

14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations
In addition directive 2008/58/EC with the 30° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.
In addition directive 2009/2/EC with the 31° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.
In addition Regulation (EC) No 1272/2008 have been taken into account.
This product is not classed as flammable.

Preparation classification:

Harmful

Contains:
203-473-3 ETHYLENE GLYCOL

Particular hazards associated with the preparation and safety recommendations:
R 22 Harmful if swallowed.
S 2 Keep out of the reach of children.
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 36/37 Wear suitable protective clothing and gloves.

Particular provisions:
Tactile warning of danger.

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

**Full text of risk phrases appearing in section 3:**

R 22  Harmful if swallowed.