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

Name of product
HYCUT® SW 220
Prod-Nr. 42 710.19
Q-Nr. Q 770/1101
Ra/au

Manufacturer/distributor
Oemeta Chemische Werke GmbH
Ossenpadd 54, D-25536 Uetersen
Phone ++49 (0)4122/924-0, Fax ++49 (0)4122/924-157
E-Mail oemeta@oemeta.com
Internet www.oemeta.com

Advice
Stefan Joksch
Phone ++49 (0)4122/924-124
Fax ++49 (0)4122/924-157

Emergency advice
Chemtrec
Phone 800 / 424-9300

Recommended intended purpose(s)
Water miscible multipurpose oil

Effect of the substance / the formulation
Application range: industry / craft. For special application notes see technical data sheet.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Preparation, contains ester oils, emulsifiers, additives

Additional advice
Please note: The information in this safety data sheet refers to the concentrate. In water solubilised form, other properties appropriate to the dilution apply.
Composition: 60-80 % synthetic ester oils, 20-30 % tensides, 0,5-1 % synthetic hydrocarbons
See section 8 and 15 for further information concerning hazardous substances.

3. HAZARDS IDENTIFICATION

Special hazards information for humans and environment
This product does not require marking as dangerous under the hazardous substances ordiance.

4. FIRST AID MEASURES

General information
Remove contaminated soaked clothing.

In case of inhalation
In the event of symptoms refer for medical treatment.

In case of skin contact
In case of contact with skin wash off with soap and water.

In case of eye contact
In case of contact with eyes rinse thoroughly with warm water.

In case of ingestion
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
- Foam
- Dry powder
- Carbon dioxide
- Water spray jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
- Nitrogen oxides (NOx)
- Carbon monoxide (CO)

Special protective equipment for fire-fighters
- Use breathing apparatus with independent air supply.

Additional information
- Collect contaminated firefighting water separately, must not be discharged into the drains.
- UEL / LEL and flashpoint see section 9.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
- High risk of slipping due to leakage/spillage of product.

Environmental precautions
- Do not discharge into the drains/surface waters/groundwater.
- Do not discharge into the subsoil/soil.

Methods for cleaning up
- Take up with absorbent material (e.g. oil binder).

Additional Information
- Informations for disposal see chapter 13.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion
- Pay attention to general rules of internal fire protection, for use as working oil.

Requirements for storage rooms and vessels
- Do not use containers, leads, pipes a.s.o. of copper or copper-containing alloys.
- Do not use zinc containers.

Further information on storage conditions
- Keep container tightly closed.
- Store in a cool, well ventilated area, away from extreme heat or open flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional advice on system design
- In case of forming aerosols/vapours we recommend purposeful exhaust.

Ingredients with occupational exposure limits to be monitored

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Name</th>
<th>Code</th>
<th>[mg/m³]</th>
<th>[ml/m³]</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>oil mist</td>
<td></td>
<td>5</td>
<td></td>
<td>OSHA</td>
</tr>
</tbody>
</table>

Respiratory protection
- Pay attention for good general ventilation.

Hand protection
- At full-contact with the concentrate we recommend to use gloves or use barrier cream.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Form</th>
<th>Colour</th>
<th>Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td>liquid</td>
<td>yellowy-brown</td>
<td>mild</td>
</tr>
</tbody>
</table>

Important health, safety and environmental information

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>Temperature</th>
<th>at</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value in delivery state</td>
<td>6 - 8</td>
<td>20 °C</td>
<td>ASTM D 1287</td>
<td>68 °F</td>
<td></td>
</tr>
<tr>
<td>cloud / clear point</td>
<td>&lt; 0 °C</td>
<td></td>
<td>ASTM D 5773</td>
<td>&lt;32 °F</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>not determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combustion temperature</td>
<td>not determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>0,93 - 0,96 g/cm³</td>
<td>20 °C</td>
<td>ASTM D 1298</td>
<td>68 °F</td>
<td></td>
</tr>
<tr>
<td>Solubility in water</td>
<td></td>
<td></td>
<td></td>
<td>emulsifiable</td>
<td></td>
</tr>
<tr>
<td>Viscosity 1 kinematic</td>
<td>198 - 242 mm²/s</td>
<td>40 °C</td>
<td>ASTM D 445</td>
<td>104 °F</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Conditions to avoid
Avoid heating of concentrate > 100 °C.

Materials to avoid
Reactions with acids and strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritability eye</td>
<td></td>
<td></td>
<td>Can shortly be irritating in case of direct contact.</td>
</tr>
</tbody>
</table>
Additional information
Pay attention to skin care/protection when continual or frequent contact with the water mixed form accours, because the product has degreasing effect which can make the skin dry. Cutting fluid aerosol/vapours in the working environment should be avoided.

12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)

<table>
<thead>
<tr>
<th>Biological degradability</th>
<th>Elimination rate</th>
<th>Method of analysis</th>
<th>Method</th>
<th>Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Biodegradable</td>
</tr>
</tbody>
</table>

The biodegrability of this product has not been tested, the classifying is related to the biodegrability of the single raw materials.

General regulation
Do not discharge product unmonitored into the environment.

13. DISPOSAL CONSIDERATIONS

Recommendations for packaging
Waste disposal method must comply with local, state and federal regulations.

Recommended cleansing agent
Water

14. TRANSPORT INFORMATION

Transport/further informations
D.O.T. - non hazardous

15. REGULATORY INFORMATION

Remarks for classification
The product does not contain any substances subject to EPCRA 302 and 313 and CERCLA. All constituents of the product are listed in the TSCA and DSL inventory. WHMIS Classification: Not a controlled product

VOC standard
VOC content 0 %

16. OTHER INFORMATION

Training advice
For further information how to use this product please apply to: Oemeta Chemische Werke GmbH/Germany, phone Mr. Joksch +49 4122/924-124.

Recommendend uses and restrictions
Further information
For further information please apply the Technical Department ++49 4122/924-132.

An exclamation mark before the relevant section number indicates that the safety data sheet has been revised.

OSHA = Occupational Safety and Health Administration
TSCA = Toxic Substance Control Act
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
DSL = Domestic Substances List
EPCRA = Emergency Planning and Community Right to Know Act

All declarations of safety-data-sheet refer to pure substance.

Sources of key data used
Oemeta Technical Department