SAFETY DATA SHEET

Date: 14.03.2012

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

1.1 Identification of the substance or preparation

<table>
<thead>
<tr>
<th>Trade name:</th>
<th>UCY-TF5 Tall Oil Fatty Acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item number:</td>
<td>10-017</td>
</tr>
<tr>
<td>Code of the preparation:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Reach registration number:</td>
<td>This substance is exempted from Registration according to provisions of Article 2(7)a and Annexv.9 of REACH.</td>
</tr>
</tbody>
</table>

1.2 Use of the substance/preparation

1.2.1 The uses of the chemical

1.2.2 Classification of economic activities (NACE)

1.2.3 Use categories (UC62)

1.2.4 The chemical can be used by the general public

1.2.5 The chemical is used by the general public only

1.3 Company/undertaking identification

1.3.1 Manufacturer, importer, other undertaking

UCY business services & trading GmbH

1.3.2 Contact information:

<table>
<thead>
<tr>
<th>Street address:</th>
<th>Am Villepohl 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postcode and post office:</td>
<td>DE-53347 Alfter</td>
</tr>
<tr>
<td>Telephone number:</td>
<td>+49 228 2428 732</td>
</tr>
<tr>
<td>Facsimile:</td>
<td>+49 228 2428 731</td>
</tr>
<tr>
<td>E-mail address:</td>
<td><a href="mailto:thilo.schneider@ucy-energy.com">thilo.schneider@ucy-energy.com</a></td>
</tr>
</tbody>
</table>

1.4 Emergency telephone

1.4.1 Telephone number, name and address

+49 163 8141789

Thilo Schneider

UCY business services & trading GmbH

Am Villepohl 4, DE-53347 Alfter

2 HAZARDS IDENTIFICATION

Product is yellowish oily liquid with a vegetable oil odour. Product is not considered to be combustible. Except after prolonged contact with highly porous materials.

- Over exposure: Might irritate eyes
- Exposure to skin: Might irritate slightly
- Contact with eyes: Possible irritation
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3 COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Hazardous ingredients

3.1.1 Name of the ingredient: Tall oil fatty acid
3.1.2 Concentration: 100 %
3.1.3 Classification (symbol letters and R phrases) and other data on the ingredient: none
3.1.4 There has been a request for confidentiality of a substance according to Annex 2 of the decree
3.1.5 A substance not dangerous has been indicated as confidential
3.1.6 Other information: none

4 FIRST AID MEASURES

4.1 Special instructions:

4.2 Inhalation:
Move person to non-contaminated air, if person is not breathing, apply artificial respiration, seek medical attention.

4.3 Skin contact:
Wash with soap and water. If hot product contacts skin, cool under running water and get medical attention.

4.4 Eye contact:
Rinse immediately with plenty of water and get medical attention. If hot product contacts eye, flush with water and get medical attention immediately.

4.5 Ingestion:
Rinse mouth with water.

4.6 Information for a doctor or other professionals giving first aid:

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:
Powder, carbon dioxide, foam, watermist (only large amounts)

5.2 Extinguishing media which shall not be used for safety reasons:
Not applicable

5.3 Special exposure hazards in a fire:
In case of fire toxic fumes might be formed.
5.4 Special protective equipment for fire-fighters:
   Wear protective clothing and use self-contained breathing apparatus.

5.5 Other instructions:
   None

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:
   Put on adequate protective equipment.

6.2 Environmental precautions:
   Keep away from drains, surface-water, ground-water, and soil.

6.3 Methods for cleaning up:
   Collect as much as possible in a clean container for disposal. Cover the remainder with inert absorbent. Disposal according to local regulations.

6.4 Other instructions:
   -

7 HANDLING AND STORAGE

7.1 Handling:
   Avoid contact with eyes.

7.2 Storage
   Direct sunshine should be avoided. Warm product can self-ignite when soaked into porous material.

7.3 Specific uses
   -

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values
   | 8.1.1 HTP values: | Not applicable |
   | 8.1.2 Other limit values: | Not applicable |
   | 8.1.3 Limit values in other countries: | Not applicable |
   | 8.1.4 DNELs: | - |
   | 8.1.5 PNECs: | - |
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8.2 Exposure controls
8.2.1 Occupational exposure controls:
8.2.1.1 Respiratory protection: No respiratory equipment required
8.2.1.2 Hand protection: Protective gloves
Material of gloves
(PVC or PE gloves)
The choice of the suitable glove is not only dependent on the material but also on other quality issues and differs from manufacturer to manufacturer
Penetration time of glove material
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
8.2.1.3 Eye protection: Safety glasses
8.2.1.4 Skin protection: Suitable protective work clothing which has coveralls and long sleeves

8.2.2 Environmental exposure controls: -

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information (physical state, colour and odour):
Liquid, yellow, faint odour.

9.2 Important health, safety and environmental information:
9.2.1 pH: Not applicable.
9.2.2 Boiling point/boiling range: >200 °C
9.2.3 Flash point: 200 °C
9.2.4 Flammability (solid, gas): -
9.2.5 Explosive properties: -
9.2.6 Oxidising properties: Not applicable
9.2.7 Vapour pressure: 3 mbar
9.2.8 Relative density: 0,905 (20°C) Density kg/dm³
9.2.9 Solubility: -
9.2.10 Water solubility: Not soluble
9.2.11 Partition coefficient: n-octanol/water log10Pow = 4.9-6.0
9.2.12 Viscosity: 35 mPa s (20 °C)
9.2.13 Vapour density: -
9.2.14 Evaporation rate: -

9.3 Other information:
-
10 STABILITY AND REACTIVITY

10.1 Conditions to avoid:
Excessive heating with porous materials. Warm product can self-ignite when soaked into porous material.

10.2 Materials to avoid:
Porous material

10.3 Hazardous decomposition products:
N/A

11 TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:
None

11.2 Irritation and corrosivity:
Eye contact: Irritating

11.3 Sensitisation:
-

11.4 Sub-acute, sub-chronic and prolonged toxicity:
-

11.5 Human health effects based on experience:
-

11.6 Other information on health effects:
-

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

12.1.1 Aquatic toxicity
-

12.1.2 Toxicity to other organisms
-

12.2 Mobility:
Not applicable

12.3 Persistence and degradability:

12.3.1 Biodegradation:
>80 % 28 days (OECD 301F)

12.3.2 Chemical degradation:
Not applicable
12.4 Bioaccumulative potential:
- 
12.5 Results of PBT assessment:
- 
12.6 Other adverse effects:
Not applicable

13 DISPOSAL CONSIDERATIONS

Method of disposal:
Controlled incineration.

Danger(s):
Warm product can self-ignite when soaked into porous material.

14 TRANSPORT INFORMATION

14.1 UN number:
Not classified

14.2 Packing group:
-

14.3 Land transport:

14.3.1 Transport class:
Not classified

14.3.2 Risk code:
Not classified

14.3.3 Name according to bill of freight:
Tall oil fatty acid UCY-FT5

14.3.4 Other information:
-

14.4 Sea transport:

14.4.1 IMDG class:
Not classified

14.4.2 Correct technical name:
Tall Oil Fatty Acids (resins less than 20%)

14.4.3 Other information:
IMO: MARPOL Annex II; IBC code, chapter 17

14.5 Air transport:

14.5.1 ICAO/IATA class:
Not classified
14.5.2 Correct technical name:
-
14.5.3 Other information:
-

15 REGULATORY INFORMATION

15.1 Information on the label

15.1.1 Danger symbols (letters) and indications of danger
Not classified

15.1.2 Substances to be named on the label
N/A

15.1.3 R phrases
None

15.1.4 S phrases
None

15.1.5 Special provisions concerning the labelling of certain preparations
N/A

15.1.6 Chemical Safety Assessment has been carried out for the following substances
N/A

15.2 National regulations
N/A

16 OTHER INFORMATION

16.1 List of relevant R phrases:
None

16.2 Training advice:
-

16.3 Recommended restrictions on use:
None

16.4 Further information:
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UCY business services & trading
Am Villepohl 4
DE-53347 Alfter
Phone: +49 228 2428 732 or +39 0165 43081
E-mail: thilo.schneider@ucy-business.com
Thilo Schneider, Quality Manager +49 163 8141789

16.5 Sources of key data used to compile the Safety Data Sheet
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