SAFETY DATA SHEET

Date: 15-December 2011

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

1.1 Identification of the substance or preparation

Trade name: Tall Oil Fatty Acids UCY-TF2-U
Item number: 10-007
Code of the preparation: Not applicable

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Identified uses: Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation (mixing) of preparations and / or re-packaging (excluding alloys). Intermediate.
1.2.2 Uses advised against: None known

1.3 Company/undertaking identification

1.3.1 Manufacturer, importer, other undertaking
UCY business services & trading GmbH

1.3.2 Contact information:
Street address: Am Villepohl 4
Postcode and post office: DE-53347 Alfter
Telephone number: +49 228 2428 732
Telefax: +49 228 2428 731
E-mail address: thilo.schneider@ucy-business.com

1.4 Emergency telephone

1.4.1 Telephone number, name and address
+49 163 8141789 or +49 228 2428 732 or +41 76 2261634
Thilo Schneider
UCY business services & trading GmbH
Am Villepohl 4, DE-53347 Alfter

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
The substance has been assessed and / or tested for its physical, health and environmental hazards and the following classification applies.

2.2 Classification according to Directive 67 / 548 / EEC or 1999/45/EC has amended
This substance does not meet the criteria for classification according to Directive 67 / 548 / EEC as amended.
2.3 Hazard Summary

Physical hazards: not classified for physical hazards
Health hazards: not classified for health hazards
Environmental hazards: not classified for hazards to environment
Specific hazards: not available
Main symptoms: not available

2.4 Precautionary statements

Prevention: not available
Response: not available
Storage: not available
Disposal: not available

2.5 Supplement label information

not applicable

3 COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 General information
Tall Oil Fatty Acid 100%

3.2 Classification DSD
-

3.3 Classification CLP
-

4 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact: Get medical attention if irritation develops and persists. Rinse skin with water/shower.
Eye contact: Rinse with water. Get medical attention if irritation develops and persists.
Ingestion: Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

4.2 Most important symptoms and effects, both acute and delayed
Not available

4.3 Indication of any immediate medical attention and special treatment needed
Not available
5 FIRE-FIGHTING MEASURES

5.1 General fire hazards
This product is not flammable. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

5.2 Extinguishing media
5.2.1 Suitable extinguishing media
- Water fog, water spray, dry chemical, carbon dioxide
5.2.2 Unsuitable extinguishing media
- Do not use water jet as an extinguisher, as this will spread the fire.

5.3 Special hazards arising from the substance or mixture
Upon decomposition, this product emits carbon monoxide, carbon dioxide and / or low molecular weight hydrocarbons.

5.4 Advice for firefighters
5.4.1 Special protective equipment for firefighters
- Wear suitable protective equipment
5.4.2 Special firefighting procedures
- Wear suitable protective equipment

5.5 Special protective equipment for fire-fighters:
- Wear protective clothing and use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
6.1.1 For non-emergency personnel
- Not available
6.1.2 For emergency responders
- Not available

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up
This product is miscible in water.
Large spills:
- Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
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Small spills:
Wipe up with absorbent material (e.g. cloth, fleece). Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4 Reference to other sections
For waste disposal, see section 13

7 HANDLING AND STORAGE

7.1 Precautions for safe handling
Contaminated rags and clothes must be put in fireproof containers for disposal. Observe good industrial hygiene practices. Follow all MSDS / label precautions even after container is emptied because they may retain product residues. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material.

7.2 Conditions for safe storage including any incompatibilities
Keep containers closed when not in use. Do not store in direct sunlight. Store at ambient temperature and atmospheric pressure.

7.3 Specific uses
Not available

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational exposure limits
No exposure limits noted for the ingredient(s)

8.1.2 Biological limit values:
No biological exposure limits noted for the ingredient(s)

8.1.3 Recommended monitoring procedures: Not available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Provide adequate general and local exhaust ventilation.

8.2.2 Individual protection measures, such as personal protective equipment
8.2.2.1 General information
Not available
8.2.2.2 Eye / face protection
Safety glasses
8.2.2.3 Skin protection
Hand protection
Not normally needed
Other
Not available
8.2.2.4 Respiratory protection
No personal respiratory protective equipment normally required
8.2.2.5 Thermal hazards
Not available
8.2.3 Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.

8.2.4 Environmental exposure controls:

Not available

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Liquid

9.2 Physical state

Liquid

9.3 Form

Liquid

9.4 Colour

Yellow

9.5 Odour

Mild

9.6 Odour threshold

Not available

9.7 pH

Not available

9.8 Melting point / freezing point

Not available

9.9 Boiling point, initial boiling point, and boiling range

>200 °C (>392 °F)

9.10 Flash point

200 °C (392 °F) Cleveland open cup

9.11 Auto-ignition temperature

257 °C (494.6 °F) Data is for similar product.

9.12 Flammability (solid, gas)

Not available

9.13 Flammability limit – lower (%)

Not available

9.14 Flammability limit – upper (%)

Not available

9.15 Oxidising properties

Not applicable

9.16 Explosive properties

Not applicable

9.17 Explosive limit

Not applicable

9.18 Vapour pressure

2.25 mm Hg at 150 °C

9.19 Vapour density

Not applicable

9.20 Evaporation rate

0 approx. (n-BuAc=1)

9.21 Relative density

0.9 at 25 °C / 25 °C; (water=1)

9.22 Density

905 kg / m³ at 20 °C

9.23 Solubility (water)

12.6 mg / l at 20 °C

9.24 Partition coefficient (n-octanol / water)

4.9 – 6 at 30 °C

9.25 Decomposition temperature

Not available

9.26 Pour point

-8 °C (17.6 °F)

9.27 Viscosity

30 cP at 20 °C

9.28 Percent volatile

0 % estimated

9.29 Other data

Chemical family

Tall Oil Fatty Acids

Flammability

Non flammable

Flammability class

Not classified

9.30 Other information

No relevant additional information available
10 STABILITY AND REACTIVITY

10.1 Reactivity
None known

10.2 Chemical stability
Material is stable under normal conditions

10.3 Possibility of hazardous reaction
Not available

10.4 Conditions to avoid
Strong oxidizing agents. Avoid temperatures exceeding the flash point. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

10.5 Incompatible materials
This product may react with strong oxidizing agents.

10.6 Hazardous decomposition products
Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

11 TOXICOLOGICAL INFORMATION

11.1 General information
Not available

11.2 Information on likely routes of exposure
11.2.1 Ingestion Not available
11.2.2 Inhalation Not available
11.2.3 Skin contact Not available
11.2.4 Eye contact Not available

11.3 Symptoms:
Not available

11.4 Information on toxicological effects
11.4.1 Acute toxicity
Not classified

11.4.2 Components
Tall Oil Fatty Acids
Test results
Acute Dermal LD50 Albino rabbit: >2000 mg / kg 14 days
Acute Oral LD50 Albino Sprague-Dewley rat: >10000mg / kg 14 days
Estimates for product may be based on additional component data not shown
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11.4.3 Skin corrosion / irritation  Not available

11.4.4 Serious eye damage / eye irritation  Not classified

11.4.5 Product Test results
    UCY-TF2-U
    Draize test
    Result: negative
    Species: Albino rabbit
    Organ: Eye
    Test duration: 7 days
    Observation Period: 7 days
    Comments: No eye irritation

11.4.6 Respiratory sensitization  Not available

11.4.7 Skin sensitization  Not classified

11.4.8 Product Test results
    UCY-TF2-U
    Buehler Test
    Result: negative
    Species: Guinea pig
    Organ: Skin
    Comments: Not a skin sensitizer
    Notes: OECD 406
    Maximisation Assay (Magnusson and Klingman)
    Result: negative
    Species: Guinea pig
    Organ: Skin
    Comments: Not a skin sensitizer
    Notes: OECD 406

11.4.9 Germ cell mutagenicity  Not classified

11.4.10 Product Test results
    UCY-TF2-U
    Germ Cell Mutagenicity: Ames
    Result: negative
    Species: Salmonella typhimurium
    Comments: No data available to indicate product or any components present at greater than 0.1 % are mutagenic or genotoxic.
    Notes: OECD471
Germ Cell Mutagenicity:
   Chromosome Abberation
   Result: positive
   Species: Hamster
   Organ: lymphatic system
   Comments: Clastogenic
   Notes: OECD 473

11.5 Carcinogenicity
   Not classified

11.6 Reproductive toxicity
   Not available

11.7 Specific target organ toxicity – single exposure
   Not available

11.8 Specific target organ toxicity – repeated exposure
   Not available

11.9 Aspiration hazard
   Not available

11.10 Mixture versus substance information
   Not available

11.11 Other information
   This product has no known adverse effects on human health.

12 ECOLOGICAL INFORMATION

12.1 Toxicity
   Components:
   Test results:
   Tall Oil Fatty Acids
   EC50 Bacteria (Pseudomonas putida): >1000 mg / l
   72 hr Growth rate; OECD 201
   EL50 Water flea (Daphnia magna): >1000 mg / l
   48 hr OECD 202
   LL50 Zebra danio (Danio rerio): >10000 mg / l 96 hr
   Estimates for product may be based on additional data not shown.

12.2 Persistence and degradability
   This product is expected to be biodegradable.
   Product: UCY-TF2-U
   Test results:
   56 % - Closed Bottle Test (% degradation in 28 days)
   Test Duration: 28 days
   74 % Modified Sturm Test
   Test Duration: 28 days
88 – 100 % CO2 Evolution Test  
Test Duration: 28 days

12.3 Bioaccumulative potential  
This product is not bioaccumulating.

12.4 Mobility  
This product is miscible in water.

12.5 Environmental fat – Partition coefficient  
Product: UCY-TF2-U  
Test results: 4.9 – 6

12.6 Mobility in soil  
Not available

12.7 Results of PBT and vPvB assessments  
Not available

12.8 Other adverse effects  
Not available

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

13.1 Residual waste  
Dispose of accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

13.2 Contaminated packaging  
Empty containers should be taken to an approved waste handling site for recycling and disposal.

13.3 EU waste code  
Not available

13.4 Disposal methods / information  
Collect and reclaim or dispose in sealed containers as licensed waste disposal site

14 TRANSPORT INFORMATION

14.1 ADR  
Not regulated as dangerous goods.

14.2 RID  
Not regulated as dangerous goods.
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14.3 ADN
Not regulated as dangerous goods.

14.4 IATA
Not regulated as dangerous goods.

14.5 IMDG
Not regulated as dangerous goods.

14.6 Transport in bulk according to ANNEX II of MARPOL 73 / 78 and in IBC Code
No information available

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

15.1 EU regulations
15.1.1 Regulation (EC) No. 2037 / 2000 on substances that deplete the ozon layer
Not regulated
15.1.2 Regulation (EC) No. 2037 / 2000 on substances that deplete the ozon layer, ANNEX II
Not listed
15.1.3 Regulation (EC) No. 850 / 2004 on persistent organic pollutants, ANNEX I
Not listed
15.1.4 Regulation (EC) No. 689 / 2008 concerning the export and import of dangerous chemicals
Not regulated
15.1.5 Regulation (EC) No. 689 / 2008 concerning the export and import of dangerous chemicals, ANNEX I, part 2
Not listed
15.1.6 Regulation (EC) No. 689 / 2008 concerning the export and import of dangerous chemicals, ANNEX I, part 3
Not listed
15.1.7 Regulation (EC) No. 689 / 2008 Import and export of dangerous chemicals
Not regulated
15.1.8 Commission Decision 2000 / 479 / EC on the implementation of a European pollutant emission register (EPER)
Not listed
Not listed
15.1.10 Regulation (EC) No. 1907 / 2006 Annex XIV Substance subject to autorisation
Not regulated

15.2 National regulations
This product is classified and labeled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of the Regulation (EC) No 1907 / 2006.
15.3 Chemical safety assessment
No Chemical Safety Assessment has been carried out.

15.4 Water hazard class
15.4.1 VwVws    WGK1

16 OTHER INFORMATION

16.1 List of abbreviations
Not available

16.2 References
Not available

16.3 Information on evaluation method leading to the classification of mixture
Not available

16.4 Full text of any statements of R-phrases and H-phrases under sections 2 to 15
None

16.5 Revision information
Not available

16.6 Training information
Not available

16.7 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

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