

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.

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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

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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 Preauctions 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 Paramters

- | | | |
|-------|------------------------------------|---|
| 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 |

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- 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; (wa ter=1)
9.22 Density	905 kg / m ³ 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

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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
Test results | Tall Oil Fatty Acids
Acute Dermal LD50 Albino rabbit:
>2000 mg / kg 14 days
Acute Oral LD50 Albino Sprague-Dewley rat:
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

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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: Test results:	UCY-TF2-U 56 % - Closed Bottle Test (% degradation in 28 days) Test Duration: 28 days 74 % Modified Sturm Test Test Duration: 28 days

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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
- 15.1.9 Regulation (EC) No. 1907 / 2006, Article 59 (1). Candidate List.
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.

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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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16.8 Disclaimer

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16.9 Issue date	15-December 2011
16.10 Revision date	15-December 2011
16.11 Print date	15-December 2011