

Material Safety Data Sheet

according to EU regulation 1907/2006/EC, art. 31



Date: November 30th, 2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: UCY-TP-BF-330-LA

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

Relevant identified uses: production and distribution of the product, fuel for boilers, bitumen additive

1.3 Supplier:

UCY business services & trading GmbH
Street: Am Villepohl 4
Post code / City: DE-53347 Alfter
Phone: +49 228 2428 732
Facsimile: +49 228 2428 731
E-Mail: verkauf@ucy-energy.com

1.4 Emergency telephone number

CHEMTREC (24/24 – 7/7)
International: +1 703 527 3887
From United Kingdom (London): 0870 820 0418
Other countries: see section 16

SECTION 2: Hazards identification

Classification according to Regulation (EC) No 1272/2008:

The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

2.3 Other hazards

Hot molten product: may burn if ignited.

This product may be stored or transported at temperatures $\geq 60^{\circ}\text{C}$. Burns may be caused by accidental splashes.

Results of PBT and vPvB assessment

PBT:

According to Annex XIII of the REACH Regulation, the substances of the mixture are not considered to be Persistent, Bioaccumulative and Toxic.

vPvB:

According to Annex XIII of the REACH Regulation, the substances of the mixture are not considered to be very Persistent and very Bioaccumulative.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterization: Mixture

Description:

UCY-TP-BF-330-LA

is composed of products of renewable origin (carbon from biomass origin).

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Combustible organic mixture.

· **Hazardous components:** Void

· **Additional information:**

For the wording of the listed hazard phrases refer to section 16.

REACH status

We certify that the substances forming this mixture are either:

- REACH registered or,
- exempts of registration.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air. If symptoms are experienced, get medical attention.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Product at ambient temperature:

Immediately rinse with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritations occurs.

Hot product:

Immediately immerse or flush the burn area with large amounts of cold water (at least 15 minutes). Do not remove solidified material from burned skin as the damaged skin can be easily torn. Transfer immediately to hospital.

· **After eye contact:**

Product at ambient temperature:

Immediately rinse with water. Remove contact lenses if present and easy to do. Hold eyelids apart and flush eyes with plenty of cool low-pressure water for several minutes. If symptoms persist, consult a doctor.

Hot product:

Do not open eyelids if covered with resins. Immediately flush eyes with large amounts of water for at least 15 minutes. Do not remove solidified material from burned eye as the damaged tissues can be easily torn. Transfer immediately to hospital.

· **After swallowing:**

Do not induce vomiting. If the person is conscious, immediately rinse out mouth with water.

- No adverse health effects are expected from accidental ingestion of small amounts of this product. In case of lasting symptoms, consult a doctor.

- For ingestion of large amounts: do not induce vomiting and get medical attention.

Do not induce vomiting.

If the person is conscious, rinse out mouth with water.

Seek immediate medical advice.

· **4.2 Most important symptoms and effects, both acute and delayed** No data available.

· **4.3 Indication of any immediate medical attention and special treatment needed** No specific indications.

SECTION 5: Firefighting measures

· **5.1 Suitable extinguishing agents**

Foam

Fire-extinguishing powder

Carbon dioxide (CO₂)

· **5.2 Special hazards arising from the substance or mixture** In case of fire, may release irritant and toxic fumes.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear appropriate personal protective equipment. Keep unprotected persons away.
Provide adequate ventilation.
Keep away from sources of ignition.
- **6.2 Environmental precautions**
Do not allow product to reach soil, waterways, drains and sewers.
Inform the relevant authorities if the product has caused environmental pollution (soil, waterways, drains or sewers).
- **6.3 Methods and material for containment and cleaning up**
Small spills:
Absorb spilled liquid with inert absorbent. Collect in an appropriate container properly labelled. Close it for disposal.
Large spills:
Stop spill if it can be done without danger. Dike. Pump as much liquid as possible with an explosion-proof pump or a hand pump. Absorb the remaining liquid with inert absorbent. Collect in an appropriate container properly labelled.
Close it for disposal.
- **6.4 Reference to other sections**
See section 8 for information on personal protection equipment.
See section 13 for disposal information.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Wear appropriate personal protective equipment. Provide adequate ventilation in the workplace.
- **Information about fire - and explosion protection:**
Protect from heat.
Keep ignition sources away.
- **Further information about storage conditions:**
· **Recommended storage temperature:** Recommended minimum storage temperature of 60 ° C
- **7.3 Specific end use(s)** None

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:** None
- **Additional information:**
This sheet is based on the current valid lists for occupational exposure limit values at the time of its preparation. The DNELs and PNECs values are derived from the chemical safety assessment conducted for REACH.
- **8.2 Exposure controls**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Immediately remove all soiled and contaminated clothing.
Avoid contact with eyes and skin.
- **Personal protective equipment**
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Hand protection:**
Protective gloves resistant to chemicals (standard EN 374-1). They should be replaced regularly and if there is any indication of degradation or chemical breakthrough.
- **Eye protection:** Safety glasses (standard EN 166).
- **Body protection:** Protective work clothing.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Viscous liquid
Colour:	Dark brown
· Odour:	Tar
· Odour threshold:	Not determined
· pH value:	Not determined
· Change in condition	
Melting/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
· Flash point:	>100 °C
· Auto-ignition temperature:	Not determined
· Decomposition temperature:	Not determined
· Explosive properties:	The components of the mixture do not contain any chemical groups associated with explosive properties.
· Oxidising properties:	The components of the mixture do not contain any chemical groups associated with oxidizing properties.
· Vapour pressure:	Not determined
· Density	
Relative density at 20 °C:	0.90 - 1.10
Evaporation rate	Not determined
· Solubility(ies)	
In water:	Not soluble or slightly soluble
· Partition coefficient: n-octanol/water:	Not determined
· Viscosity	
Dynamic:	Not determined
Kinematic at 50 °C:	≤ 600 mm ² /s
	at 100 °C : ≤ 40 mm ² /s
· 9.2 Other information	No other data

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data from specific reactivity tests are available for this product or this class of product.
- **10.2 Chemical stability**
Product stable under storage and handling conditions according to specifications (see section 7).
- **10.3 Possibility of hazardous reactions:** No decomposition if used according to specifications.
- **10.4 Conditions to avoid** Keep away from heat and sources of ignition.
- **10.5 Incompatible materials** No incompatible materials known.
- **10.6 Hazardous decomposition products** No dangerous decomposition products known.

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Valeurs DL₅₀/CL₅₀ déterminantes pour la classification :**
LD₅₀ for the components of the mixture are > 2000 mg/kg (oral, rat).
- **Skin corrosion/irritation:**
May cause irritation by prolonged skin contact. However, based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:**
May be irritating to the eyes. However, based on available data, the classification criteria are not met.
- **Skin sensitisation:** No sensitizing effects observed for the components of this product.
- **Mutagenicity/genotoxicity:** No mutagenic effects observed for the components of this product.
- **Carcinogenicity:** The components of this product are not expected to be carcinogenic.
- **Reproductive toxicity:** No toxicity for reproduction and development observed for the components of this product.
- **Specific target organ toxicity - single exposure:**
No specific target organ toxicity was observed in the LD₅₀ determination studies.
- **Specific target organ toxicity - repeated exposure:**
No specific target organ toxicity observed for the components of this product.
- **Aspiration hazard:** After swallowing, no entry into the respiratory tract is expected.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
According to Regulation (EC) No 1272/2008, the components of the mixture are not considered to be CMR.

SECTION 12: Ecological information

- **12.1 Aquatic toxicity**
Aquatic toxicity values were determined for the constituents of this mixture. They do not result in classification of the mixture. The method of water-accommodated fractions (WAFs) was used for the two substances. This technique was developed for slightly soluble substances; the initial loading rate of the substance is well higher than the solubility in water. LL₅₀ and EL₅₀, similar to LC₅₀ and EC₅₀, are obtained.
The results are the following for the substances:
LL₅₀ (96h), fish (Danio rerio) : > 100 mg/L (nominal concentration - OECD 203).
NOELr (96h), fish (Danio rerio) : ≥ 100 mg/L (nominal concentration - OECD 203).
EL₅₀ (48h), daphnia (Daphnia magna) : > 2000 mg/L (nominal concentration - OECD 202).
NOELr (48h), daphnia (Daphnia magna) : 1000 mg/L (nominal concentration - OECD 202).
EL₅₀ (72h), algae (Desmodesmus subspicatus) : > 100 mg/L (growth rate and biomass yield - nominal concentration - OECD 201).
NOELr (72h), algae (Desmodesmus subspicatus) : ≥ 100 mg/L (growth rate and biomass yield - nominal concentration - nominal concentration - OECD 201).
- **Toxicity to aquatic microorganisms:**
Sewage containing the mixture can be treated by a municipal sewage treatment plant:
EL₅₀ (3 h), bacteria (activated sludge) : > 100 mg/L (nominal concentration - OECD 209).
- **12.2 Persistence and degradability** The substances of the mixture are not - as a whole - readily biodegradable.
- **12.3 Bioaccumulative potential** No experimental data available for the components of the mixture.
- **12.4 Mobility in soil** No experimental data available for the components of the mixture.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
According to Annex XIII of the REACH Regulation, the substances of the mixture are not considered to be Persistent, Bioaccumulative and Toxic.
- **vPvB:**
According to Annex XIII of the REACH Regulation, the substances of the mixture are not considered to be very Persistent and very Bioaccumulative.
- **12.6 Other adverse effects** No data available.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods** National and regional regulations have to be adhered to.
- **Recommendation:** The product has to be disposed of in an authorised incinerator, according to regulation.
- **Uncleaned packaging**
- **Recommendation:** Packaging has to be sent to an authorised waste treatment facility, for recycling or disposal.

SECTION 14: Transport information

· 14.1 UN Number	Not classified as a dangerous good under transport regulation.
· 14.2 UN proper shipping name	Not classified as a dangerous good under transport regulation.
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class	Not classified as a dangerous good under transport regulation.
· 14.4 Packing group	Not applicable.
· 14.5 Environmental hazards · Marine pollutant:	No environmental hazards according to transport regulation. No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Substances of the mixture listed in the IBC Code (International Bulk Chemical Code about ships involved in the transport of dangerous/noxious liquid chemicals in bulk): Pollution category: Y, ship type:2
· Transport/Additional information:	When shipped over 100°C and below flash point: Class: 9 Item: M9 Packaging group: III Danger code: 99 Hazard label: 9 UN number: 3257 ELEVATED TEMPERATURE LIQUID, N.O.S.
· UN "Model Regulation"	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) No 1907/2006 (REACH):
The product does not contain any of the substances included in the following lists
- Annex XIV (authorisation) / substances of very high concern (SVHC)
- Annex XVII (restrictions)
Directive 2012/18/EU:
The product does not fulfill the criteria of the hazard categories listed in Annex I Part 1 and is not listed in Part 2.
- **15.2 Chemical safety assessment**
The substances of this mixture either:
- do not meet the criteria for classification as dangerous (or their concentrations are below the declarative threshold),
or
- are not considered to be a PBT or vPvB, or
- are exempted from registration
Therefore exposure assessment and risk characterisation were not required and thus there is no annex to this safety data sheet.

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SECTION 16: Other information

Information provided in this safety data sheet is based on our experience and present knowledge. It is a description of safety requirements and data given on the product and cannot be considered as specifications. They shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Version:** 1.0

· **Emergency telephone numbers (other countries):**

CHEMTREC In-Country Numbers (24/24 - 7/7)

Argentina (Buenos Aires): +54 (0)11 5983 9431

Australia (Sydney): +61 (0)2 9037 2994

Bahrain (Bahrain): +973 1619 9372

Belgium (Brussels): +32 (0)2 808 32 37

Brazil (Rio de Janeiro): +55 21 3958 1449

Canada*: 1 800 424 9300

Chile (Santiago): +56 (0)22 581 4934

China*: 4001 204 937

Czech Republic (Prague): +420 228 880 039

Colombia*: 01 800 710 2151

France: +33 (0)975 18 14 07

Germany*: 0 800 181 7059

Hong Kong* (Hong Kong): 800 968 793

Hungary (Budapest): +36 (06)1 808 8425

India*: 000 800 100 7141

Indonesia*: 001 803 017 9114

Israel (Tel Aviv): +972 (0)3 763 0639

Italy*: 800 789 767

Italy (Milan): +39 02 4555 7031

Japan (Tokyo): +81 (0)3 4520 9637

Malaysia*: 1 800 815 308

Mexico*: 01 800 681 9531

Netherlands: +31 (0)858 880 596

Peru (Lima): +51 1 707 1295

Philippines*: 1 800 1 116 1020

Poland (Warsaw): +48 22 398 80 29

Singapore*: 800 101 2201

Singapore: +65 3158 1349

South Africa*: 0 800 983 611

South Korea*: 00 308 13 2549

Spain*: 900 86 85 38

Sweden (Stockholm): +46 (0)8 5250 3403

Switzerland: +41 (0)43 508 20 11

Taiwan*: 00801 14 8954

Thailand*: 001 800 13 203 9987

United Kingdom (London): +44 (0)870 820 0418

USA*: 1 800 424 9300

(*) Phone numbers for countries marked with an asterisk must be dialed within the country.

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· Abbreviations and acronyms:

CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging
H4R: Hydrocarbon Resins & Rosin Resins REACH Consortium - <https://h4rconsortium.com>
ECHA: European Chemicals Agency
EC: European Commission
ISO: International Organization for Standardization
Directive 2012/18/EU: Directive of the European Parliament and of the Council of 4 July, on the control of major-accident hazards involving dangerous substances
IFRA: International Fragrance Association
OECD: Organisation for Economic Co-operation and Development
ECVAM: European Centre for the Validation of Alternative Methods
QSAR: Quantitative Structure Activity Relationship
DNA: DeoxyriboNucleic Acid
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: very Persistent and very Bioaccumulative substance.
UVCB: Substances of unknown or variable composition, complex reaction products or biological materials
SVHC: Substances of Very High Concern
BCF: Bioconcentration Factor
CMR: Substance classified as Carcinogenic, Mutagenic or Toxic for Reproduction
Koc: Organic carbon/water partition coefficient. It represents the potential of retention of the substance on soil organic matter
NOEL: No Observed Effect Level
NOELr: Initial loading rate of the substance without observed effect
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
NOAEC: No Observed Adverse Effect Concentration
LOEC: Lowest Observed Effect Concentration
LOAEC: Lowest Observed Adverse Effect Concentration
LOAEL: Lowest Observed Adverse Effect Level
EC₁₀: Concentration which leads to a 10% reduction in treated organism responses compared to untreated organism responses (algae) or concentration which causes effects to 10 % of the tested organisms (daphnids)
EC₅₀: Concentration which leads to a 50% reduction in treated organism responses compared to untreated organism responses (algae) or concentration which causes effects to 50 % of the tested organisms (daphnids)
EL₅₀: Loading rate which leads to a 50 % reduction in treated organisms responses compared to untreated organism responses (algae) or loading rate which causes effects to 50 % of the tested organisms (daphnids)
LC₅₀: Lethal concentration for 50% of exposed animals
LD₅₀: Lethal dose for 50% of animals exposed by oral or dermal route
LL₅₀: Median lethal loading rate (lethal level for 50 % of fish exposed)
LC100: Lethal concentration for 100% of exposed animals
GPMT: Guinea Maximisation Test - Magnusson and Kligman test
LLNA: Local Lymph Node Assay
CO₂: Carbon dioxide
NLP: No Longer Polymer
bw: body weight
dw: dry weight
ww: wet weight
ppm: parts per million

· Sources:

Data come from the SDS of our suppliers, REACH dossier on ECHA website, company data and literature data.
Literature and company data

· Modified data compared to the previous version: Not applicable - first version

· Annex: no