

# MATERIAL SAFETY DATA SHEET

according to EU-regulation 1907/2006/EC (REACH)



**UCY-DPKFA 1220-P – item number 40-040**

Date: January 22<sup>nd</sup>, 2021

## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1 Product identifier**

**Trade name:** UCY-DPKFA 1220-P

**Description:** Topped Palm Kernel Fatty Acid / MB

**CAS Number:**

90990-15-1

**EC number:**

292-776-4

**Registration number**

Not applicable.

Annex V (9) of REACH

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

No further relevant information available.

### **Application of the substance / the mixture**

Chemical intermediate

Intermediate

### **1.3 Details of the supplier of the safety data sheet**

#### **Manufacturer/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-address: sales@ucy-energy.com

### **1.4 Emergency telephone number:**

Giftnotruf Nord, Phone +49 551 19240 (24/7)

## **2. Hazards identification**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation

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### 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008 Not applicable
- Hazard pictograms Not applicable
- Signal word Not applicable
- Hazard statements Not applicable

### 2.3 Other hazards

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## 3. Composition / Information of ingredients

### 3.1 Chemical characterization: Substance

CAS No. Description

90990-15-1 Fatty acids, C12-18 and C18-unsatd.

Identification number(s)

EC number: 292-776-4

| · <b>Dangerous components:</b>                                       |   |          |
|--|---|----------|
| CAS: 143-07-7<br>EINECS: 205-582-1<br>Reg.nr.: 01-2119538184-40-0000 | lauric acid<br>☠ Eye Dam. 1, H318   | 40 - 60% |
| CAS: 334-48-5<br>EINECS: 206-376-4<br>Reg.nr.: 02-2119564960-32-0000 | decanoic acid<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | ≤ 1,5%   |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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## **5. Firefighting Measures**

### **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

Foam

Sand

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters** Avoid breathing dust/fume/gas/mist/vapours/spray.

· **Protective equipment:** In case of insufficient ventilation, wear suitable respiratory equipment.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

### **6.3 Methods and material for containment and cleaning up:**

Dispose of the material collected according to regulations.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### **6.4 Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **7. Handling and storage**

**7.1 Precautions for safe handling** Keep away from heat and direct sunlight.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

### **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· **Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

**7.3 Specific end use(s)** No further relevant information available.

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## **8. Exposure controls / personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.

### **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Suitable respiratory protective device recommended.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

## **9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Liquid

**Colour:** Yellowish

· **Odour:** Light

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

**Melting point/freezing point:** ca. 8 - 25 °C

**Initial boiling point and boiling range:** ca. 200 °C

· **Flash point:** ca. > 200 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** ca. > 300 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapour pressure at 25 °C:** < 0,01 hPa

· **Density at 20 °C:** 0,9 g/cm<sup>3</sup>

· **Relative density** Not determined.

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- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water at 25 °C:** ca. 0,05 g/L
- **Partition coefficient: n-octanol/water:** > 5 log Kow
- **Viscosity:**  
**Dynamic:** Not determined

## 10. Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

Stable at environment temperature.

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

See Section 7 for information on safe handling.

### 10.5 Incompatible materials

See Section 7 for information on safe handling.

### 10.6 Hazardous decomposition products

Irritant gases/vapours  
Carbon monoxide and carbon dioxide

## 11. Toxicological information

### 11.1 Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**  
**90990-15-1 Fatty acids, C12-18 and C18-unsatd.**  
Oral LD50 > 5000 mg/kg bw (Rat) (OECD 401; RA CAS # 90990-08-2; Fatty acids, C8-18)  
Dermal LD50 > 2000 mg/kg bw (Rabbit) (OECD 434; RA CAS # 57-11-4; C18)
- **Primary irritant effect:**
  - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
  - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Repeated dose toxicity**

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### 90990-15-1 Fatty acids, C12-18 and C18-unsatd.

Oral NOAEL (subchronic) 1000 mg/kg bw/d (Rat) (OECD 422)

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Toxicity for reproduction**

### 90990-15-1 Fatty acids, C12-18 and C18-unsatd.

Oral NOAEL (fertility) > 1000 mg/kg bw/d (Rat) (OECD 422; RA CAS # 112-85-6; C22)

- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met

## 12. Ecological information

### 12.1 Toxicity

#### · Aquatic toxicity:

### 90990-15-1 Fatty acids, C12-18 and C18-unsatd.

EC50 (48h) 3,6 mg/L (Daphnia magna) (OECD 202; RA CAS # 143-07-7; C12)

LC50 (96h) 5 mg/L (fish) (OECD 203; RA CAS # 143-07-7; C12)

### 12.2 Persistence and degradability

Easily biodegradable

Read-across CAS # 143-07-7 (C12):

BCF = 225 L/kg

### 12.3 Bioaccumulative potential

Does not accumulate in organisms

### 12.4 Mobility in soil

CAS # 143-07-7 (C12); Koc 501,3

CAS # 544-63-8 (C14); Koc 3,430

CAS # 57-10-3 (C16); Koc 13,230

CAS # 57-11-4 (C18); Koc 51,050

#### · **Additional ecological information:**

#### · **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

WGK Registration 657 for CAS No. 143-07-7 (as major component).

WGK Registration 661 for CAS No. 544-63-8.

WGK Registration 659 for CAS No. 112-80-1.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 12.5 Results of PBT and vPvB assessment

· **PBT:** No

· **vPvB:** No

**12.6 Other adverse effects** No further relevant information available.

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## **13. Disposal considerations**

### **13.1 Waste treatment methods**

- **Recommendation** Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## **14. Angaben zum Transport**

### **14.1 UN-Number**

- **ADR,RID,ADN, ADN, IMDG, IATA**

Not regulated

### **14.2 UN proper shipping name**

- **ADR,RID,ADN, ADN, IMDG, IATA**

Not regulated

### **14.3 Transport hazard class(es)**

- **ADR,RID,ADN, ADN, IMDG, IATA Class**

Not regulated

### **14.4 Packing group**

- **ADR,RID,ADN, IMDG, IATA**

Not regulated

### **14.5 Environmental hazards:**

- **Marine pollutant**

No

### **14.6 Special precautions for user**

Not applicable.

### **14.7 Transport in bulk according to Annex II of**

**MARPOL 73/78 and the IBC Code** Product name : Fatty acids, C12+

Pollution category: Y

Ship type: 2

- **UN "Model Regulation"**

Not regulated

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### 15. Regulatory information

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

##### · Other regulations, limitations and prohibitive regulations

Positive Country Substance Listing for CAS 90990-15-1:

Europe (EINECS): 292-776-4, Japan (ENCS) : 2-608 & 2-609, Korea (ECL) : KE-14253, China (IECSC), Philippines (PICCS), New Zealand (NZIOC), Taiwan (CSNN).

List of alternative CAS numbers:

Positive Country Substance Listing for CAS No. 143-07-7:

USA (TSCA), Canada (DSL), Europe (EINECS), Japan (ENCS) : 2-608, Australia (AICS), Korea (ECL) : KE-12855, China (IECSC), Philippines (PICCS), New Zealand (NZIOC), Taiwan (CSNN).

Positive Country Substance Listing for CAS No. 57-10-3:

USA (TSCA), Canada (DSL), Europe (EINECS) : 200-312-9, Japan (ENCS) : 2-608, Australia (AICS), Korea (ECL) : KE-18438, China (IECSC), Philippines (PICCS), New Zealand (NZIOC) & Taiwan (CSNN).

Positive Country Substance Listing for CAS No. 112-80-1:

USA (TSCA), Canada (DSL), Europe (EINECS) : 204-007-1, Japan (ENCS) : 2-609 & 2-975, Australia (AICS), Korea (ECL) : KE-26450, China (IECSC), Philippines (PICCS), New Zealand (NZIOC), Taiwan (CSNN).

Note: The substance name and CAS numbers which are used for this product in the stated inventories may deviate from the information listed in Section 3.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: [sales@ucy-energy.com](mailto:sales@ucy-energy.com)

· Contact: [sales@ucy-energy.com](mailto:sales@ucy-energy.com)

#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

BCF: Bioconcentration Factor

NOAEL: No Observed Adverse Effect Level

RA : Read across

LDLo: Lowest Published Lethal Dose

VOID: Not regulated / Not Classified / Not a Dangerous Good

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances



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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3