

# Material Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)



**Base Oil – UCY-BO100 – item number 80-026**

Date: November 23<sup>rd</sup>, 2020

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

### **1.1. Product identifier**

Product: Base Oil UCY-BO100

Item number: 80-026

CAS-no.: 64741-88-4

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

#### **Use of the substance/preparation**

Base oil for further processing, Having regard to the application proposed and identified by CONCAWE.  
The specification of the identified applications is not required because the substance is not subject to registration as per REACH regulation.

#### **Uses advised against**

No applications known.

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

#### **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: verkauf@ucy-energy.com

### **1.4. Emergency telephone number**

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

## **2. Hazards identification**

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

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

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## 2.3. Other hazards

Product can form a film on the water surface that can prevent oxygen exchange. Refer to section 11, 12 and 15.

## 3. Composition / information on ingredients

### 3.1. Substances

#### Chemical characterization

Mineral oil

#### Other information

The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH]. [Item 2.7 d] DMSO extract: < 3 %.

## 4. First aid measures

### 4.1. Description of first aid measures

#### General information

In case of persistent symptoms consult doctor. Never give anything by mouth to an unconscious person.

#### After inhalation

In the event of symptoms take medical treatment. Remove the casualty into fresh air and keep him calm.

#### After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists. Remove contaminated clothing.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

#### After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

#### Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

### 4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

### 4.3. Indication of any immediate medical attention and special treatment needed

#### Hints for the physician / treatment

Treat symptomatically

## 5. Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam, Dry powder, Carbon dioxide

#### Non suitable extinguishing media

Water

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## 5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Pyrolysis products; Hydrocarbons; Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Hydrogen sulfide (H<sub>2</sub>S); Nitrogen oxides (NO<sub>x</sub>); Phosphorus oxides; Smoke.

## 5.3. Advice for firefighters

### Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus. Wear full protective suit. Do not allow run-off from fire fighting to enter drains or water courses.

## 6. Accidental release measures

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

Ensure adequate ventilation. Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product. Avoid breathing vapours.

### 6.2. Environmental precautions

Do not allow to enter drains or waterways. Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under Section 13 "Disposal".

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. Information regarding waste disposal, see Section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Hot product develops flammable vapours. Handle and open container with care. Avoid skin and eye contact. Avoid formation of oil dust.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Do not smoke. Take precautionary measures against static discharge.

#### Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires      B (Combustible liquid substances)

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

#### Recommended storage temperature

Value                              <=      80                              °C

#### Requirements for storage rooms and vessels

Keep only in original packaging.



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## Hints on storage assembly

Keep away from flammable substances.

## Storage class according to TRGS 510

Storage class according to TRGS 510      10      Flammable liquids

## Further information on storage conditions

Due to temporary runtime tests, the product can be stored at a storage temperature of 80°C without changing the general product quality. As a result of oxidative processes, only a slight change in colour of the product can be observed. Keep container tightly closed and dry. Keep in a cool place

## 7.3. Specific end use(s)

see product information

## 8. Exposure controls / personal protection

### 8.1. Control parameters

#### Other information

There is not known any national exposure limit.

### 8.2. Exposure controls

#### Exposure controls

Technical measures for preventing exposition. Organisational measures for preventing exposition.

Provide adequate ventilation. The type of personal protective equipment must be selected depending on the concentration and quantity of the hazardous substance at the workplace.

#### General protective and hygiene measures

Observe the usual precautions for handling chemicals. Store work clothing separately. Wash hands before breaks and after work. Cloths contaminated with product should not be kept in trouser pockets. Do not eat, drink or smoke during work time. Personal protective equipment must comply with the Council Directive 89/686/EEC and the resulting CEN standards.

#### Respiratory protection

Not necessary, but do not inhale vapours. In situations where misting or flying may occur use appropriate certified respirators. Short term: filter apparatus, combination filter A-P2

#### Hand protection

For this purpose, protective gloves are suitable, for instance, made by the company KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) with the following specification (tested as per EN374):

Use      Permanent hand contact

Camatril (Item No: 731; Material: Nitrile; Minimum layer thickness: 0.33 mm; Burst time: 480 min)

Dermatril (Item No: 740; Material: Nitrile; Minimum layer thickness: 0.11 mm; Burst time: 30 min)

The protective gloves to be used must comply with the specifications of the EU directive 89/686/EEC and the standard EN374 derived from it. The above mentioned burst times are based on laboratory measurements of KCL made as per EN 374 and are applicable only for this KCL product.

Preventive skin protection by protective skin ointment.

#### Eye protection

Tightly fitting safety glasses; Eye protection must comply with EN 166.

#### Body protection

Clothing as usual in the chemical industry. Protective gloves resistant to chemicals; With steel toe cap.

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## 9. Physical and chemical properties

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

Form	liquid			
Colour	light yellow			
Odour	characteristic			
<b>Initial boiling point and boiling range</b>				
Value	>	300		°C
<b>Flash point</b>				
Value	>	220		°C
Method	ISO 2592			
<b>Pour Point</b>				
Value	<=	-9		°C
Method	DIN ISO 3016			
<b>Upper/lower flammability or explosive limits</b>				
Lower explosion limit		0,6		%(V)
Upper explosion limit		6,5		%(V)
<b>Density</b>				
Value		0,845	to	0,855 g/cm³
Temperature		15	°C	
<b>Solubility in water</b>				
Remarks	insoluble			
<b>Viscosity</b>				
<b>kinematic</b>				
Value		22	to	26 mm²/s
Temperature		40	°C	
<b>kinematic</b>				
Value		4,4	to	4,9 mm²/s
Temperature		100	°C	

## 10. Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

### 10.4. Conditions to avoid

Oxidising agents

### 10.5. Incompatible materials

None known

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## 10.6. Hazardous decomposition products

Refer to section 5.3.

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

#### Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

#### Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

#### Sensitization

Remarks Based on available data, the classification criteria are not met.  
Remarks May cause sensitization by skin contact.

#### Subacute, subchronic, chronic toxicity

Remarks Based on available data, the classification criteria are not met.

#### Mutagenicity

Remarks Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

#### Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

#### Specific Target Organ Toxicity (STOT)

Remarks 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

#### General information

Based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability

#### Biodegradability

Remarks The product is not readily biodegradable according to OECD criteria but is inherently biodegradable



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## 12.3. Bioaccumulative potential

### General information

Can be enriched in organisms.

## 12.4. Mobility in soil

### Mobility in soil

Adsorbs on soil.

## 12.5. Results of PBT and vPvB assessment

### Evaluation of persistence and bioaccumulation potential

This substance does not meet the criteria for the classification as PBT or vPvB.

## 12.6. Other adverse effects

### Behaviour in environment compartments

Product can accumulate in organisms.

### Behaviour in sewers [waste treatment plants]

May be separated out mechanically in purification plants.

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Disposal as per EC directive 75/442/ECC and 91/689/ECC on waste and hazardous waste in the current versions as amended from time to time.

The waste code numbers/waste designations are to be assigned in accordance with EWC with reference to industrial fields and processes.

Dispose of waste according to applicable legislation.

EWC waste code                      13 02 05\*                      mineral-based non-chlorinated engine, gear and lubricating oils

Dispose of as hazardous waste.

#### Disposal recommendations for packaging

EWC waste code                      13 02 05\*                      mineral-based non-chlorinated engine, gear and lubricating oils

Packaging that cannot be cleaned should be disposed off as product waste.

Uncontaminated packaging may be taken for recycling.

Completely emptied packagings can be given for recycling.

## 14. Transport Information

### Land transport ADR/RID

Non-dangerous goods

#### 14.1. UN number

UN -

#### 14.2. UN proper shipping name

-

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## 14.3. Transport hazard class(es)

Class -

## 14.4. Packing group

Packing group -

## 14.5. Environmental hazards

-

## Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

### 14.1. UN number

UN -

### 14.2. UN proper shipping name

-

### 14.3. Transport hazard class(es)

Class -

### 14.4. Packing group

Packing group -

## Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

### 14.1. UN number

UN -

### 14.2. UN proper shipping name

-

### 14.3. Transport hazard class(es)

Class -

### 14.4. Packing group

Packing group -

### 14.5. Environmental hazards

-

## Information for all modes of transport

### 14.6. Special precautions for user

The relevant transport regulations have to be considered.

## Other information

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

no

## 15. Regulatory information

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## 16. Other information

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.