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Trade name: Unisol 3

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

- **1.1 Product identifier**
- **Trade name:** Unisol 3
- **Article number:** 20530400
- **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** Textile auxiliary

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS05, GHS08
- **Signal word** Danger

- **Hazard-determining components of labelling:**

sulfosuccinate sodium salt
Hydrocarbons
N,N-bis(hydroxyethyl)amides

- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**
P273 Avoid release to the environment.

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- P280 Wear eye protection / face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards Not applicable
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

alkyl ether alcohol	10-25%
Eye Irrit. 2, H319	
sulfosuccinate sodium salt	10-25%
Eye Dam. 1, H318; Skin Irrit. 2, H315	
Hydrocarbons	10-25%
Asp. Tox. 1, H304	
glycol	10%
Acute Tox. 4, H302; Eye Irrit. 2, H319	
paraffin oil, sulfochlorinated, saponified	≥2.5-<10%
Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
alkyl alcohol	≥2.5-<10%
Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
N,N-bis(hydroxyethyl)amides	≥3-<10%
Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	

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

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Call for a doctor 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.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
 - Water
 - Water haze

- Foam
 Fire-extinguishing powder
 Carbon dioxide
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
 Carbon monoxide (CO)
 - **5.3 Advice for firefighters**
Protective equipment: Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
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**
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** *No special measures required.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
Requirements to be met by storerooms and receptacles: *No special requirements.*
Information about storage in one common storage facility: *Not required.*
Further information about storage conditions: *Keep receptacle tightly sealed.*
- **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

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

- DNELs

alkyl ether alcohol

Dermal	Long-term - systemic effects, worker	83 mg/kg bw/day (.)
Inhalative	Acute - local effects, worker	101.2 mg/m ³ (.)
	Long-term - systemic effects, worker	67.5 mg/m ³ (.)
	Long-term - local effects, worker	67.5 mg/m ³ (.)

sulfosuccinate sodium salt		
<i>Dermal</i>	<i>Long-term - systemic effects, worker</i>	200.9 mg/kg bw/day (.)
<i>Inhalative</i>	<i>Long-term - systemic effects, worker</i>	1.417 mg/m ³ (.)
glycol		
<i>Dermal</i>	<i>Long-term - systemic effects, worker</i>	20.83 mg/kg bw/day (.)
<i>Inhalative</i>	<i>Long-term - systemic effects, worker</i>	8.07 mg/m ³ (.)
	<i>Long-term - local effects, worker</i>	8.07 mg/m ³ (.)
- DNEL (Derived No Effect Level) for the general population		
alkyl ether alcohol		
<i>Oral</i>	<i>Acute - systemic effects, general population</i>	5 mg/kg bw/day (.)
<i>Dermal</i>	<i>Long term - systemic effects, general population</i>	50 mg/kg bw/day (.)
<i>Inhalative</i>	<i>Acute - local effects, general population</i>	60.7 mg/m ³ (.)
	<i>Long-term - systemic effects, general population</i>	40.5 mg/m ³ (.)
	<i>Long-term - local effects, general population</i>	40.5 mg/m ³ (.)
sulfosuccinate sodium salt		
<i>Oral</i>	<i>Long-term - systemic effects, general population</i>	13.39 mg/kg bw/day (.)
<i>Dermal</i>	<i>Long term - systemic effects, general population</i>	120.5 mg/kg bw/day (.)
<i>Inhalative</i>	<i>Long-term - systemic effects, general population</i>	419.3 mg/m ³ (.)
glycol		
<i>Oral</i>	<i>Long-term - systemic effects, general population</i>	9.23 mg/kg bw/day (.)
<i>Dermal</i>	<i>Long-term - local effects, general population</i>	10.42 mg/kg/d (.) (mg/kg bw/d)
<i>Inhalative</i>	<i>Long-term - systemic effects, general population</i>	2.41 mg/m ³ (.)
	<i>Long-term - local effects, general population</i>	2.41 mg/m ³ (.)
- PNECs		
alkyl ether alcohol		
<i>Aquatic compartment - freshwater</i>		1.1 mg/L (.)
<i>Aquatic compartment - marine water</i>		0.11 mg/L (.)
<i>Aquatic compartment - water, intermittent releases</i>		11 mg/L (.)
<i>Aquatic compartment - sediment in freshwater</i>		4.4 mg/kg sed dw (.)
<i>Aquatic compartment - sediment in marine water</i>		0.44 mg/kg sed dw (.)
<i>Terrestrial compartment - soil</i>		0.32 mg/kg dw (.)
<i>Sewage treatment plant</i>		200 mg/l (.)
<i>Oral secondary poisoning</i>		56 mg/kg food (.)
sulfosuccinate sodium salt		
<i>Aquatic compartment - freshwater</i>		0.18 mg/L (.)
<i>Aquatic compartment - marine water</i>		0.018 mg/L (.)
<i>Aquatic compartment - sediment in freshwater</i>		17.79 mg/kg sed dw (.)
<i>Aquatic compartment - sediment in marine water</i>		1.779 mg/kg sed dw (.)
<i>Terrestrial compartment - soil</i>		1.04 mg/kg dw (.)
<i>Sewage treatment plant</i>		12.2 mg/l (.)
glycol		
<i>Aquatic compartment - freshwater</i>		0.943 mg/L (.)
<i>Aquatic compartment - marine water</i>		0.0943 mg/L (.)
<i>Aquatic compartment - sediment in freshwater</i>		7.2366 mg/kg sed dw (.)
<i>Aquatic compartment - sediment in marine water</i>		0.7237 mg/kg sed dw (.)
<i>Terrestrial compartment - soil</i>		1.26 mg/kg dw (.)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the skin.
 - Avoid contact with the eyes and skin.
- **Respiratory protection:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **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
 - Protective gloves
- **Material of gloves**
 - Natural rubber, NR
 - 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material** Not applicable
- **Eye protection:**
 - Safety glasses
 - Tightly sealed goggles
- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not determined.
- **pH-value at 20 °C:** 7-8
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	> 34 °C
- **Flash point:** 73 °C
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** 225 °C
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**

Lower:	Not determined.
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<i>Upper:</i>	<i>Not determined.</i>
- <i>Vapour pressure at 20 °C:</i>	<i>23 hPa</i>
- <i>Density at 20 °C:</i>	<i>0.995 g/cm³</i>
- <i>Relative density</i>	<i>Not determined.</i>
- <i>Vapour density</i>	<i>Not determined.</i>
- <i>Evaporation rate</i>	<i>Not determined.</i>
- <i>Solubility in / Miscibility with water:</i>	<i>Fully miscible.</i>
- <i>Partition coefficient: n-octanol/water:</i>	<i>Not determined.</i>
- <i>Viscosity:</i>	
<i>Dynamic:</i>	<i>Not determined.</i>
<i>Kinematic at 20 °C:</i>	<i>19 mm²/s</i>
- 9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **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** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

SECTION 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:**

alkyl ether alcohol

<i>Oral</i>	<i>LD50</i>	<i>2,410 mg/kg (rat) (OECD 401)</i>
<i>Dermal</i>	<i>LD50</i>	<i>2,764 mg/kg (rbt) (OECD 402)</i>

sulfosuccinate sodium salt

<i>Oral</i>	<i>LD50</i>	<i>>3,000 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50</i>	<i>>10,000 mg/kg (rabbit)</i>

Hydrocarbons

<i>Oral</i>	<i>LD50</i>	<i>>5,000 mg/kg (rat) (OECD 401)</i>
<i>Dermal</i>	<i>LD50</i>	<i>>5,000 mg/kg (rabbit) (24h OECD 402)</i>
<i>Inhalative</i>	<i>LC 50/8h</i>	<i>>5,000 mg/m³ (rat) (OECD 403)</i>

glycol

<i>Oral</i>	<i>LD50</i>	<i>1,850 mg/kg (rat)</i>
<i>Dermal</i>	<i>OECD 408</i>	<i>369 mg/kg bw/day (rat)</i>
	<i>NOAEL</i>	<i>500 mg/kg bw/d (rabbit)</i>
	<i>LOAEL</i>	<i>>500 mg/kg bw/d (rabbit)</i>
<i>Inhalative</i>	<i>LD50</i>	<i>5,000 mg/kg (rabbit)</i>
	<i>OECD 412</i>	<i>0.246 mg/l (rat)</i>
	<i>OECD 412 (NOAEC)</i>	<i>0.0482 mg/l (rat)</i>

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<i>Irritation of eyes</i>	<i>Augenreizung</i>	<i>irritant (.)</i>
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **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.
- **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**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

alkyl ether alcohol

<i>LC50/96 h</i>	<i>1,300 mg/l (Lepomis macrochirus) (OECD 203 static)</i>
<i>EC50/48 h</i>	<i>>100 mg/l (Daphnia magna)</i>
<i>EC50</i>	<i>>100 mg/l (Desmodesmus subspicatus)</i>
<i>LC 50</i>	<i>2,850 mg/l (Daphnia magna)</i>

sulfosuccinate sodium salt

<i>ErC50</i>	<i>82.5 mg/l (algae)</i>
<i>LC50/48h</i>	<i>49 mg/l (fish)</i>
<i>EC 50/24h</i>	<i>24.8 mg/l (aquatic invertebrates)</i>
<i>LC50/24h</i>	<i>49 mg/l (fish)</i>
<i>EC50/48 h</i>	<i>6.6 mg/l (aquatic invertebrates)</i>

Hydrocarbons

<i>OECD 202</i>	<i>>1,000 mg/l (Daphnia magna)</i>
<i>OECD 203 96h</i>	<i>>1,000 mg/l (Onchorrhynchus mykiss)</i>
<i>OECD 201</i>	<i>>1,000 mg/l 72h (Pseudokirchneriella subcapitata)</i>

glycol

<i>EC50/72h</i>	<i>625 mg/l (Desmodesmus subspicatus)</i>
<i>NOEC</i>	<i>23 mg/l (pimephales promelas) (34d)</i>
<i>NOEC/21d</i>	<i>9.43 mg/l (Daphnia magna)</i>
<i>LC50/96 h</i>	<i>344 mg/l (pimephales promelas)</i>
<i>EC50/48 h</i>	<i>>500 mg/l (Daphnia magna)</i>
<i>LOEC</i>	<i>22.5 mg/l (Daphnia magna) (21d)</i>
	<i>50 mg/l (pimephales promelas) (34d)</i>
<i>OECD 211</i>	<i>9.43 ppm (Daphnia magna) (21d)</i>

· 12.2 Persistence and degradability

alkyl ether alcohol

<i>OECD 301 E</i>	<i>>70 % (28 d)</i>
<i>OECD 302 B</i>	<i>100 % (.)</i>

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sulfosuccinate sodium salt	
DOC	91.2 % (.)
log Kow	1.998 (.)
Hydrocarbons	
OECD 301 F	69 % (28 d)
glycol	
OECD 301F/28d	75 % (carbondioxide formation)
OECD 301F/28d	90 % (consumption of oxygen)
Henry-Konstante	0.002 Pa*m ³ /mol (.)
DOC (28 Tage)	99 % (.)
OECD 301 A	90-100 % (15 d)
log Koc	1.611 (.)
log Kow	1.2 (.)
BCF	0.349 (.)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|------|
| - 14.1 UN-Number | |
| - ADR, ADN, IMDG, IATA | Void |
| - 14.2 UN proper shipping name | |
| - ADR, ADN, IMDG, IATA | Void |
| - 14.3 Transport hazard class(es) | |
| - ADR, ADN, IMDG, IATA | |
| - Class | Void |
| - 14.4 Packing group | |
| - ADR, IMDG, IATA | Void |

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· 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 and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	25-50

· **Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.**

· **15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

SECTION 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.

· **Abbreviations and acronyms:**

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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - oral - Category 4

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

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

· *** Data compared to the previous version altered.**