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Trade name: Unisol 2

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

- **1.1 Product identifier**
- Trade name: Unisol 2
- Article number: 20530390
- **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



corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- 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
- Signal word Danger

· Hazard-determining components of labelling:

alcohols ethoxylated

· Hazard statements

H318 Causes serious eye damage.

· Precautionary statements

P280

Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

· 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:

alcohols ethoxylated	 Eye Dam. 1, H318	10-25%
alkyl ether alcohol	 Eye Irrit. 2, H319	10-25%

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alkyl sulfonate

 Skin Irrit. 2, H315; Eye Irrit. 2, H319

2.5-10%

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**
- *After inhalation:* Supply fresh air; consult doctor in case of complaints.
- *After skin contact:* If skin irritation continues, consult a doctor.
- *After eye contact:* Rinse opened eye for several minutes under running water. Then consult a doctor.
- *After swallowing:* If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
- Dizziness
- Dizziness
- **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:**
- CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Use fire extinguishing methods suitable to surrounding conditions.
- **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.
- Do not inhale explosion gases or combustion gases.
- Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
- Particular danger of slipping on leaked/spilled product.
- Wear protective clothing.
- **6.2 Environmental precautions:**
- Do not allow to penetrate the ground/soil.
- 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).
- 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.

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- 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:** None.
- **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:**
- | alkyl ether alcohol | |
|-------------------------------|--------------------------------------------------------------------------------------------------------|
| IOELV (European Union) | Short-term value: 101.2 mg/m ³ , 15 ppm
Long-term value: 67.5 mg/m ³ , 10 ppm |
- **Additional information:** The lists valid during the making were used as basis.
 - **8.2 Exposure controls**
 - **Personal protective equipment:**
 - **General protective and hygienic measures:**
 - 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 eyes.
 - **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:** Protective gloves
 - **Material of gloves** Butyl rubber, BR
 - **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:** 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: | Colourless |
| Odour: | Characteristic |
| Odour threshold: | Not determined. |
| pH-value at 20 °C: | 2.5-3 |
| Change in condition | |
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | 100 °C |
| Flash point: | 98 °C |
| Flammability (solid, gas): | Not applicable. |

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- Ignition temperature:	200 °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.
Upper:	Not determined.
- Vapour pressure at 20 °C:	23 hPa
- Density at 20 °C:	1.004 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with water:	Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
- 9.2 Other information	No further relevant information available.

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**
Reacts with alkali (lyes).
Reacts with oxidising agents.
- **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:**

alcohols ethoxylated

Oral	LD50	> 2000 mg/kg (rat)
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alkyl ether alcohol

Oral	LD50	5660 mg/kg (rat)
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Dermal	LD50	4000 mg/kg (rbt)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

alcohols ethoxylated

EC 10	> 5000 mg/l (activated sludge)
EC50/72h	10-100 mg/l (aquatic plants)
LC50/96 h	1-10 mg/l (leuciscus idus)

alkyl ether alcohol

LC 50	2850 mg/l (Daphnia magna) 2250 mg/l (orfe)
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12.2 Persistence and degradability

alcohols ethoxylated

BSB (5 Tage)	0.635 g/g (.)
CSB	2.31 g O ₂ /g (.)
OECD 301 B	> 60 % (.)
OECD 301 E	≥ 90 % (.)

alkyl ether alcohol

OECD 302 B	100 % (.)
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- **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.

SECTION 14: Transport information	
<ul style="list-style-type: none"> - 14.1 UN-Number - ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR, ADN, IMDG, IATA - Class 	Void
<ul style="list-style-type: none"> - 14.4 Packing group - ADR, IMDG, IATA 	Void
<ul style="list-style-type: none"> - 14.5 Environmental hazards: - Marine pollutant: 	No
<ul style="list-style-type: none"> - 14.6 Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> - UN "Model Regulation": 	Void

SECTION 15: Regulatory information					
<ul style="list-style-type: none"> - 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture - National regulations: - Technical instructions (air): 					
<table border="1"> <thead> <tr> <th>Class</th> <th>Share in %</th> </tr> </thead> <tbody> <tr> <td>NK</td> <td>10-25</td> </tr> </tbody> </table>	Class	Share in %	NK	10-25	
Class	Share in %				
NK	10-25				
<ul style="list-style-type: none"> - 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	
<p>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.</p>	
<ul style="list-style-type: none"> - 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) 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 - * Data compared to the previous version altered. 	