

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**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Bussetti & Co Ges.m.b.H.
Rötzerlg. 57
1170 Wien**Further information obtainable from:** Labor**1.4 Emergency telephone number:**

business day:

Mo - Th: 9:00 - 16:00

Mr. Herbert Fischer

Fr: 9:00 - 13:00

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

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- 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 (.)

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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 (.)

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- **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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Upper:	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C:	0.995 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	19 mm ² /s
· 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** 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		
Oral	LD50	2,410 mg/kg (rat) (OECD 401)
Dermal	LD50	2,764 mg/kg (rbt) (OECD 402)
sulfosuccinate sodium salt		
Oral	LD50	>3,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Hydrocarbons		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (24h OECD 402)
Inhalative	LC 50/8h	>5,000 mg/m ³ (rat) (OECD 403)
glycol		
Oral	LD50	1,850 mg/kg (rat)
Dermal	OECD 408	369 mg/kg bw/day (rat)
	NOAEL	500 mg/kg bw/d (rabbit)
	LOAEL	>500 mg/kg bw/d (rabbit)
Inhalative	LD50	5,000 mg/kg (rabbit)
	OECD 412	0.246 mg/l (rat)
	OECD 412 (NOAEC)	0.0482 mg/l (rat)

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<i>Irritation of eyes</i>	Augenreizung	irritant (.)
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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

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

sulfosuccinate sodium salt

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

Hydrocarbons

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

glycol

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

· **12.2 Persistence and degradability**

alkyl ether alcohol

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

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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 % (comsumption 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.**