

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

- 1.1 Product identifier
- Trade name: **Unisol 4**
- Article number: 5304100
- 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.  
Rötzerger 57  
1170 Wien
- Further information obtainable from: Labor
- 1.4 Emergency telephone number:

**Poisons Information Centre**  
**13 11 26 (anywhere in Australia)**  
**0800 764 766 (anywhere in New Zealand)**

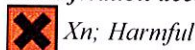
## SECTION 2: Hazards identification

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

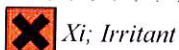


Eye Dam. 1 H318 Causes serious eye damage.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



R22: Harmful if swallowed.



R41: Risk of serious damage to eyes.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 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  
sulfosuccinate sodium salt

- Hazard statements

H318 Causes serious eye damage.

- Precautionary statements

P280 Wear protective gloves/protective clothing/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.

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## Safety data sheet

according to 1907/2006/EC, Article 31

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- 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	Xn R22;  Xi R41 Eye Dam. 1, H318;  Acute Tox. 4, H302	10-25%
alkyl ether alcohol	Xi R36 Eye Irrit. 2, H319	10-25%
glycol	Xn R22;  Xi R36 Acute Tox. 4, H302;  Eye Irrit. 2, H319	2,5-10%
sulfosuccinate sodium salt	Xi R38-41 Eye Dam. 1, H318;  Skin Irrit. 2, H315	2,5-10%
alkyl alcohol	Xn R20/22 Acute Tox. 4, H302;  Acute Tox. 4, H332;  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
- 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. Then 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.

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## 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:** 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:** None.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 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:**

<b>alkyl ether alcohol</b>	
IOELV (European Union)	Short-term value: 101,2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67,5 mg/m <sup>3</sup> , 10 ppm

· **DNELs**

<b>alkyl ether alcohol</b>		
Dermal	Acute - systemic effects, worker	20 mg/kg bw/day (.)
Inhalative	Acute - local effects, worker	101,2mg/m <sup>3</sup> --- (.)
	Long-term - local effects, worker	67,5 mg/m <sup>3</sup> (.)
	Long-term - systemic effects, worker	67,5 mg/m <sup>3</sup> (.)

· **DNEL (Derived No Effect Level) for the general population**

<b>alkyl ether alcohol</b>		
Oral	Acute - systemic effects, general population	1,25 mg/kg bw/day (.)
Dermal	Acute - systemic effects, general population	10 mg/kg (.)
Inhalative	Acute - local effects, general population	50,6 mg/m <sup>3</sup> (.)
	Long-term - local effects, general population	34 mg/m <sup>3</sup> (.)
	Long-term - systemic effects, general population	34 mg/m <sup>3</sup> (.)

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## PNECs

### alkyl ether alcohol

Aquatic compartment - freshwater	1 mg/L (.)
Aquatic compartment - marine water	0,1 mg/L (.)
Aquatic compartment - sediment in freshwater	4 mg/kg sed dw (.)
Aquatic compartment - sediment in marine water	0,4 mg/kg sed dw (.)
Terrestrial compartment - soil	0,4 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 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

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

Butyl rubber, BR

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: 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: 7-8

#### Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C

Flash point: 98 °C

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 200 °C

Decomposition temperature: Not determined.

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· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	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:	1,03 g/cm <sup>3</sup>
· 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:	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 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:

##### alcohols ethoxylated

Oral	LD50	500 - 2000 mg/kg (rat)
Irritation of skin	OECD 404	nicht reizend (rabbit)
Irritation of eyes	OECD 405	reizend (eye of rabbit)

##### alkyl ether alcohol

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rbt)

##### glycol

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Sensitisation	OECD 406	nicht sensibil. (guinea pig)
	Pr. Schleimhautreiz.	reizend (rabbit)

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.

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- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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

EC10/17h	48 mg/l (bacterias)
EC50/48 h	10-100 mg/l (aquatic invertebrates)
EC50/96h	10-100 mg/l (aquatic plants)
LC50/96 h	10-100 mg/l (leuciscus idus)
NOEC/21d	12,5 mg/l (Daphnia magna)

##### alkyl ether alcohol

EC50	>100 mg/l (Desmodesmus subspicatus)
EC50/48 h	>100 mg/l (Daphnia magna)
LC 50	2850 mg/l (Daphnia magna)
	>100 mg/l (leuciscus idus)

##### glycol

EC 50/48h	>500 mg/l (aquatic invertebrates)
EC 50/72h	>500 mg/l (aquatic plants)
EC10/17h	320 mg/l (activated sludge)
LC50/96 h	>100 mg/l (leuciscus idus)
OECD 209	>100 mg/l (activated sludge)

### 12.2 Persistence and degradability

#### alcohols ethoxylated

CSB	2,5 g O <sub>2</sub> /g (.)
OECD 301 B	> 60 % (.)
OECD 301 E	≥90 % (.)

#### alkyl ether alcohol

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

#### glycol

OECD 301 A	90-100 % (15 d)
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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.

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· 12.5 Results of PBT and vPvB assessment

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· 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

· 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	10-25

· 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.

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according to 1907/2006/EC, Article 31

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**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

SVHC: Substances of Very High Concern

Acute Tox. 4: Acute toxicity – 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

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

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