

4023207

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## 01 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- *Trade name:*  
SPEZIALVERDÜNNER 1020-98 FOR WATER-BORNE SYSTEMS
- Article number / Safety Data Sheet:  
V10200
- **Details of the supplier of the safety data sheet**
- *Manufacturer/Supplier:*  
Teknos Feyco AG  
Industriestrasse 3  
LI-9487 Gamprin-Bendern  
T +423 375 94 00  
F +423 375 94 99
- *Further information obtainable from:*  
Product safety department. e-mail address: li-sdb@tekнос.com
- *Emergency telephone number:*  
Swiss Toxicological Information Centre Emergency telephone: +41 (0)44 251 51 51

## 02 Hazards identification

- *Classification of the substance or mixture*



GHS07

Acute Tox. 4 - H312 Harmful in contact with skin.  
Skin Irrit. 2 - H315 Causes skin irritation.  
Eye Irrit. 2A - H319 Causes serious eye irritation.

Acute Tox. 5 - H303 May be harmful if swallowed.  
Acute Tox. 5 - H333 May be harmful if inhaled.

- *Label elements*
- GHS label elements
- Hazard pictograms



GHS07

- Signal word  
Warning

- Hazard-determining components of labelling:  
2-butoxyethanol
- Hazard statements  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H303 May be harmful if swallowed.  
H333 May be harmful if inhaled.
- Precautionary statements  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves.  
P280 Wear protective gloves / protective clothing.  
P280 Wear eye protection / face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

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**03 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description:**  
Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS Number		%
111-76-2	<b>2-butoxyethanol</b>	40,00- 60,00
	EC number: 203-905-0	
	Record number 01-2119475108-36	
	⚠ Acute Tox. 4 - H302, Acute Tox. 4 -	
	H312, Acute Tox. 4 - H332, Skin Irrit. 2 -	
	H315, Eye Irrit. 2A - H319; H227	

**04 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Do not induce vomiting; call for medical help immediately.  
Call for a doctor immediately.

**05 Firefighting measures**

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**  
Mouth respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**06 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **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.
- **Reference to other sections**

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according to 2001/58 EC

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See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**07 Handling and storage**

- **Handling:**
- *Precautions for safe handling*  
Ensure good ventilation/exhaustion at the workplace.  
Take note of emission threshold.
- *Information about fire - and explosion protection:*  
No special measures required.
- **Storage:**
- *Requirements to be met by storerooms and receptacles:*  
Store only in the original receptacle.
- *Information about storage in one common storage facility:*  
Not required.
- *Further information about storage conditions:*  
Protect from frost.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **Specific end use(s)**  
No further relevant information available.

**08 Exposure controls/personal protection**

- **Ingredients with limit values that require monitoring at the workplace:**

111-76-2

2-butoxyethanol

PDK

Short-term value

5

mg/m<sup>3</sup>

$$\frac{mg}{m^3} \pm \frac{1}{10} \pm \frac{1}{10} \frac{mg}{m^3}$$

- *Additional information:*  
The lists valid during the making were used as basis.
- **Personal protective equipment:**
- *General protective and hygienic measures:*  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes and skin.  
Do not eat or drink while working.  
Be sure to clean skin thoroughly after work and before breaks.
- *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. Suitable respiratory protective device recommended.*
- *Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves Impervious gloves*
- *Material of gloves*  
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*  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- *Eye protection: Safety glasses Tightly sealed goggles*
- *Body protection: Protective work clothing*

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**09 Physical and chemical properties**

<b>Appearance</b>			
<b>Appearance:</b>			
<b>Form:</b>	Liquid		
<b>Colour:</b>	According to product specifica		
<b>Odour:</b>	Characteristic Characteristic		
<b>Odour threshold:</b>	Not determined.		
<b>Change in condition</b>			
<b>Initial boiling point and boiling range:</b>	Undetermined.		
<b>Flash point:</b>	65 °C		
<b>Flammability (solid, gas):</b>	Not applicable.		
<b>Ignition temperature:</b>	Undetermined.		
<b>Decomposition temperature:</b>	Not determined.		
<b>Auto-ignition temperature:</b>	Not determined.		
<b>Explosive properties:</b>	Not determined.		
<b>Explosion limits:</b>			
<b>Lower:</b>	1 Vol %		
<b>Upper:</b>	10 Vol %		
<b>Vapour pressure:</b>	at 20 °C	1,2000 mbar at 50 °C	5,3000
	mbar		
<b>Density:</b>	0,9500 g/cm3		
<b>Solubility in / Miscibility with water:</b>			
	Not determined.		
<b>Viscosity:</b>			
.	Not determined.		
.	at 20 °C		
<b>Other information</b>	No further relevant information available.		

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Incompatible materials:**  
No further relevant information available.
- **Hazardous decomposition products:**  
No dangerous decomposition products known.

**11 Toxicological information**

- **Acute toxicity**
  - **LD/LC50 values relevant for classification:**
- 111-76-2 2-butoxyethanol**  
Oral, LD50: 1746 mg/kg (rat) Oral, LD50: 1414 mg/kg (guinea Pig) Dermal, LD50: 2000 mg/kg (rat) Dermal, LD50: 1000 mg/kg (Rabbit) Dermal, LD50: 2000 mg/kg (guinea Pig)
- **Primary irritant effect:**
  - Skin corrosion/irritation  
Irritant to skin and mucous membranes.
  - Serious eye damage/irritation  
Irritating effect.
  - **Respiratory or skin sensitisation**  
No sensitising effects known.
  - **Additional toxicological information:**

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**PRODUCT : SPEZIALVERDÜNNER 1020-98 FOR WATER-BORNE SYSTEMS***(continued of page 5)***ADR** Void**IMDG** Void**IATA** Void**• Environmental hazards:**

Not applicable.

**• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**• Transport/Additional information:**

Not applicable.

**15 Regulatory information****• National regulations:****• Classification according to VbF:**

-

**• Technical instructions (air):****• Class Share in %**

I 50,00

**• Waterhazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

**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.

**• Relevant phrases**

H227	Combustible liquid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

**• Department issuing MSDS:**

Environment protection department.

**• 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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

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)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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