

according to 1907/2006/EC, Article 31

4052007

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

### • 1.1 Product identifier

- Trade name:  
TREND 4559
- Article number / Safety Data Sheet:  
455900
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation  
Coating material

### • 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:  
\* Teknos AG  
Industriestrasse 7  
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@teknos.com
- 1.4 Emergency telephone number:  
Swiss Toxicological Information Centre, CH-8032 Zürich Emergency telephone: +41 (0)44 251 51 51 (International)

## SECTION 02: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008  
Void
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms  
Void
- Signal word  
Void
- Hazard statements  
EUH210 Safety data sheet available on request.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT:  
Not applicable.
- vPvB:  
Not applicable.

## SECTION 03: Composition/information on ingredients

### • 3.2 Chemical characterization: Mixtures

- Description:  
Mixture of substances listed below with nonhazardous additions.

#### • Dangerous components:

CAS Number		%
111-76-2	<b>2-butoxyethanol</b> EC number: 203-905-0 ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	1,00- 5,00
57-55-6	<b>propane-1,2-diol</b> EC number: 200-338-0	1,00- 5,00

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 Acute Tox. 4 - H302

#### SECTION 04: First aid measures

- *4.1 Description of first aid measures*
- **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- *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 05: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **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.

#### SECTION 06: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 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.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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 07: Handling and storage

- **Handling:**
- **7.1 Precautions for safe handling**  
Use only in well ventilated areas.
- **Information about fire - and explosion protection:**  
No special measures required.

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- 7.2 Conditions for safe storage, including any incompatibilities
- **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.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)**  
No further relevant information available.

## SECTION 08: Exposure controls/personal protection

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

111-76-2	2-butoxyethanol		
<b>HTP</b>			
	<b>Short-term value</b>	<b>250</b>	<b>mg/m3</b>
		<b>50</b>	<b>ppm</b>
	<b>Long-term value</b>	<b>98</b>	<b>mg/m3</b>
		<b>20</b>	<b>ppm</b>
	<b>ihv</b>		

- **Additional information:**  
The lists valid during the making were used as basis.
- 8.2 Exposure controls
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Do not eat or drink while working.  
Be sure to clean skin thoroughly after work and before breaks.
- **Respiratory protection:** 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 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
- **Body protection:** Protective work clothing

## SECTION 09: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

#### Appearance:

<b>Form:</b>	Liquid
<b>Colour:</b>	According to product specifica
<b>Odour:</b>	Characteristic Characteristic

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<b>Odour threshold:</b>	Not determined.	
<b>Change in condition</b>		
<b>Melting point/Melting range:</b>	0 °C	
<b>Boiling point/Boiling range:</b>	100 °C	
<b>Flash point:</b>	> 100 °C c.c.	
<b>Flammability (solid, gaseous):</b>	Not applicable.	
<b>Ignition temperature:</b>	371 °C	
<b>Decomposition temperature:</b>	Not determined.	
<b>Self-igniting:</b>	Not determined.	
<b>Danger of explosion:</b>	Not determined.	
<b>Explosion limits:</b>		
<b>Lower:</b>	Not determined.	
<b>Upper:</b>	Not determined.	
<b>Vapour pressure:</b>	at 20 °C	23,0000 mbar
<b>Density:</b>	1,0300 g/cm3	
<b>Solubility in / Miscibility with water:</b>	Not determined.	
<b>Viscosity:</b>		
.	Not determined.	
.	at 20 °C	20 - 22 s DIN 4 mm
<b>9.2 Other information</b>	No further relevant information available.	

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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:**
  - **LD/LC50 values relevant for classification:**
- 108-65-6 2-methoxy-1-methylethyl acetate**  
 Oral, LD50: 8532 mg/kg (rat) Inhalative, LC50/4h: 35,7 mg/l (rat) Oral, LD50: 5660 mg/kg (rat) Dermal, LD50: 13000 mg/kg (Rabbit) Inhalative, LC50/4h: 6 mg/l (rat) 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) Oral, LD50: 2000 mg/kg (rat) Dermal, LD50: 20800 mg/kg (Rabbit) Oral, LD50: 10000 mg/kg (rat) Oral, LD50: 2000 mg/kg (rat) Dermal, LD50: 1370 mg/kg (Rabbit) Inhalative, LC50/4h: 3,25 mg/l (mouse) Oral, LD50: 1300 mg/kg (rat) Inhalative, LC50/4h: 5 mg/l (mouse)
- 107-98-2 1-methoxy-2-propanol**
- 111-76-2 2-butoxyethanol**
- 57-55-6 propane-1,2-diol**
- 7631-86-9 silicon dioxide, chemically prepared**
- 108-01-0 2-dimethylaminoethanol**

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**100-37-8 2-diethylaminoethanol**

- *Primary irritant effect:*
- on the skin:  
No irritant effect.
- on the eye:  
No irritating effect.
- *Sensitization:*  
No sensitising effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

## SECTION 12: Ecological information

- *12.1 Toxicity*
- Aquatic toxicity:  
No further relevant information available.
- **12.2 Persistence and degradability**  
No further relevant information available.
- **Behaviour in environmental systems:**
- *12.3 Bioaccumulative potential*  
No further relevant information available.
- *12.4 Mobility in soil*  
No further relevant information available.
- **Additional ecological information:**
- *General notes:*  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **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**
- *European and swiss waste code*  
08  
WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS  
08 01  
wastes from MFSU and removal of paint and varnish  
08 01 19  
aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
- **Uncleaned packaging:**
- *Recommendation:*  
Disposal must be made according to official regulations.
- *Recommended cleansing agents:*  
Water, if necessary together with cleansing agents.

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**PRODUCT : TREND 4559***(continued of page 5)***SECTION 14: Transport information**

- **14.1 UN-Number**

ADR Void

IMDG Void

IATA Void

- **14.2 UN proper shipping name**

ADR Void

IMDG Void

IATA Void

- **14.3 Transport hazard class(es)**

ADR

Class Void

IMDG

Class Void

IATA

Class Void

- **14.4 Packing group**

ADR Void

IMDG Void

IATA Void

- **14.5 Environmental hazards:**

Not applicable.

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

Not applicable.

- **Transport/Additional information:**

Not applicable.

**SECTION 15: Regulatory information**

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

- **National regulations:**

- **Classification according to VbF:**

-

- **Technical instructions (air):**

- **Class Share in %**

I 2,33

III 5,00

- **Waterhazard class:**

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

- **Relevant phrases**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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- **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  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative
- *\* Data compared to the previous version altered.*