

# MATERIAL SAFETY DATA SHEET

according to 2001/58 EC

3039915

Reviewed on: 17.05.2019

Printing date: 17.05.2019

## 01 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- \* • *Trade name:*  
\* ETERNO 3600/3601-30
- Article number / Safety Data Sheet:  
636019
- **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@teknos.com
- *Emergency telephone number:*  
Swiss Toxicological Information Centre  
Emergency telephone: +41 (0)44 251 51 51

## 02 Hazard identification

- *Classification of the substance or mixture*  
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.
- *Label elements*
- GHS label elements
- Hazard pictograms  
Void
- Signal word  
Void
- Hazard-determining components of labelling:  
titanium dioxide / 2-butoxyethanol / Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
- Hazard statements  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

## 03 Composition and information of the ingredients of the hazardous chemical

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

- *Dangerous components:*

<b>CAS Number</b>		<b>%</b>
112-34-5	<b>2-(2-butoxyethoxy)ethanol</b> <b>EC number: 203-961-6</b> <b>Record number 01-2119475104-44</b> ⚠ <b>Eye Irrit. 2 - H319</b>	<b>1,00- 5,00</b>
111-76-2	<b>2-butoxyethanol</b> <b>EC number: 203-905-0</b> <b>Record number 01-2119475108-36</b> ⚠ <b>Acute Tox. 4 - H302, Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 -</b>	<b>1,00- 5,00</b>

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	<i>H315, Eye Irrit. 2 - H319</i>	
	<i>BENZOTRIAZOL DERIVATIVES Index no. 607-176-00-3</i>	<i>0,00- 0,50</i>
	<i>EC number: 400-830-7</i>	
	<i>Record number 01-0000015075-76</i>	
	<i>⚠ Skin Sens. 1 - H317; ⚠ Aquatic</i>	
	<i>Chronic 2 - H411</i>	
<i>41556-26-7</i>	<i>Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</i>	<i>0,00- 0,50</i>
	<i>Record number 01-2119491304-40</i>	
	<i>⚠ Skin Sens. 1 - H317; ⚠ Aquatic</i>	
	<i>Acute 1 - H400, Aquatic Chronic 1 - H410</i>	
<i>82919-37-7</i>	<i>Methyl1,2,2,6,6-pentamethyl-4-piperidyl</i>	<i>0,00- 0,50</i>
<i>*</i>	<i>EC number: 280-060-4</i>	
<i>*</i>	<i>Record number 01-2119976378-19</i>	
<i>*</i>	<i>⚠ Skin Sens. 1 - H317; ⚠ Aquatic</i>	
<i>*</i>	<i>Acute 1 - H400, Aquatic Chronic 1 - H410</i>	
<i>34590-94-8</i>	<i>Dipropylene glycol monomethyl ether</i>	<i>0,00- 0,50</i>
<i>*</i>	<i>EC number: 252-104-2</i>	
<i>*</i>	<i>Record number 01-2119450011-60</i>	
<i>13463-67-7</i>	<i>titanium dioxide</i>	<i>15,00- 25,00</i>
<i>*</i>	<i>EC number: 236-675-5</i>	
<i>*</i>	<i>Record number 01-2119489379-17</i>	

**04 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.

**05 Fire-fighting 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.

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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).

• **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.

## 07 Handling and storage

• **Handling:**

• *Precautions for safe handling*

No special precautions are necessary if used correctly.

• *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.

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 and personal protection

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

111-76-2

**2-butoxyethanol**

PEL

**Long-term value****96.7****mg/m3****20****ppm****(kulit)**

\*

34590-94-8

**Dipropylene glycol monomethyl ether**

PEL

**Long-term value****606****mg/m3****100****ppm****(kulit)**

• **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.

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. Use suitable respiratory protective device in case of insufficient ventilation.

• **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.

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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*

## 09 Physical and chemical properties

**Appearance****Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	According to product specifica
<b>Odour:</b>	Characteristic Characteristic
<b>Odour threshold:</b>	Not determined.

**Change in condition**

<b>Melting point/freezing point:</b>	0 °C
<b>Initial boiling point and boiling range:</b>	Undetermined.
<b>Flash point:</b>	Not applicable.
<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>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	at 20 °C 23,0000 mbar
<b>Density:</b>	1,2600 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:**
  - 112-34-5                    2-(2-butoxyethoxy)ethanol**  
Oral, LD50: 5660 mg/kg (rat)  
Dermal, LD50: 4000 mg/kg (Rabbit)
  - 111-76-2                    2-butoxyethanol**  
Oral, LD50: 1746 mg/kg (rat)  
Oral, LD50: 1414 mg/kg (guinea Pig)

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Dermal, LD50: 2000 mg/kg (rat)  
Dermal, LD50: 1000 mg/kg (Rabbit)  
Dermal, LD50: 2000 mg/kg (guinea Pig)

\* **34590-94-8 Dipropylene glycol monomethyl ether**

Oral, LD50: 5135 mg/kg (rat)  
Dermal, LD50: >19000 mg/kg (Rabbit)

**13463-67-7 titanium dioxide**

Oral, LD50: >20000 mg/kg (rat)  
Dermal, LD50: >10000 mg/kg (Rabbit)  
Inhalative, LC50/4h: >6,82 mg/l (rat)

- **Primary irritant effect:**
- Skin corrosion/irritation  
No irritant effect.
- Serious eye damage/irritation  
No irritating effect.
- **Respiratory or skin sensitisation**  
No sensitising effects known.

## 12 Ecological information

- Aquatic toxicity:  
No further relevant information available.
- **Persistence and degradability**  
No further relevant information available.
- **Behaviour in environmental systems:**
- *Bioaccumulative potential*  
No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**  
Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Harmful to aquatic organisms  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

## 13 Disposal information

- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.
- **Recommended cleansing agents:**  
Water, if necessary together with cleansing agents.

## 14 Transportation information

- **UN-Number**
- ADR** Void
- IMDG** Void
- IATA** Void
- **UN proper shipping name**
- ADR** Void
- IMDG** Void
- IATA** Void
- **Transport hazard class(es)**
- ADR**
- Class** Void
- IMDG**
- Class** Void

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**IATA****Class** Void• **Packing group****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 1,68

• **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**

*	H302	Harmful if swallowed.
*	H312	Harmful if in contact with skin.
*	H315	Causes skin irritation.
*	H317	May cause allergic skin reaction.
*	H319	Causes serious eye irritation.
*	H332	Harmful if inhaled.
*	H400	Very toxic to aquatic life.
*	H410	Very toxic to aquatic life with long lasting effects.
*	H411	Toxic to aquatic life with long lasting effects.

• **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.**