

according to 1907/2006/EC, Article 31

3022817

Reviewed on: 19/08/2021 Printing date: 19/08/2021

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

- 1.1 Product identifier
- · Trade name:
- PENTOL UV PROTECT PLUS 0783
- Article number / Safety Data Sheet: 209801SDB
- 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



GHS07

Skin Sens. 1A - H317 May cause an allergic skin reaction.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS07

- Signal word Warning
- · Hazard-determining components of labelling:

BENZOTRIAZOL DERIVATIVES Index no. 607-176-00-3 / Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate / 3-lodo-2-propynylbutylcarbamate /

1,2-benzisothiazol-3(2H)-one

Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

- 2.3 Other hazards
- · Results of PBT and vPvB assessment

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· PBT:

Not applicable. vPvR: 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** 2634-33-5 1,2-benzisothiazol-3(2H)-one 0,0015-0,50 EC number: 220-120-9 Eye Dam. 1 - H318; Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1 -H317; 🄄 Aquatic Acute 1 - H400 57-55-6 Propylene glycol 1,00- 5,00 EC number: 200-338-0 Record number 01-2119456809-23 Acute Tox. 4 - H302 111-76-2 2-butoxyethanol 1,00- 5,00 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. 2 - H319 34590-94-8 Dipropylene glycol monomethyl ether 0,0015-0,50 EC number: 252-104-2 Record number 01-2119450011-60 substance with a Community workplace exposure limit. **BENZOTRIAZOL DERIVATIVES Index no. 607-176-**0,0015-0,50 00-3 EC number: 400-830-7

Record number 01-0000015075-76 🗘 Skin Sens. 1 - H317; 🧇 Aquatic

Chronic 2 - H411

41556-26-7 Bis(1,2,2,6,6-pentamethyl-4-piperidyl)

sebacate

Record number 01-2119491304-40 🕩 Skin Sens. 1 - H317; 🕸 Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

55406-53-6 3-lodo-2-propynylbutylcarbamate 0,0015-0,50

EC number: 259-627-5

♦ Eye Dam. 1 - H318; ♦ Acute Tox. 3 - H331; 🕸 STOT RE 1 - H372; 🗘 Acute Tox. 4 - H302, Skin Sens. 1 - H317;

Aquatic Acute 1 - H400, Aquatic Chronic 1 -

H410

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0,0015-0,50



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1314-13-2 zinc oxide 1,00- 5,00

EC number: 215-222-5

Record number 01-2119463881-32 Aquatic Acute 1 - H400, Aquatic

Chronic 1 - H410

2682-20-4 2-methyl-2H-isothiazol-3-one 0,0015-0,50

EC number: 220-239-6

Skin Corr. 1B - H314, Eye Dam. 1 -H318; Acute Tox. 3 - H301, Acute Tox. 3 - H311, Acute Tox. 2 - H330; 🗘 Skin Sens. 1A - H317; Aquatic Acute 1 -

H400, Aquatic Chronic 1 - H410

Additional information:

For the wording of the listed risk phrases refer to section 16.

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. Immediately rinse with water.

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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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.

In case of seepage into the ground inform responsible authorities.

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Dilute with plenty of water.

In case of gas release or seepage into the ground inform responsible authorities.

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.

· 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

Open and handle receptacle with care.

Prevent formation of aerosols.

• Information about fire - and explosion protection:

Prevent impact and friction.

- · 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:

57-55-6 Propylene glycol

WEL

Long-term value 474* 10** mg/m3

150* ppm

*total vapour and particulates **particulates

111-76-2 2-butoxyethanol

WEL

Short-term value 246 mg/m3 50 ppm

Long-term value 123 mg/m3

25 ppm

Sk, BMGV

34590-94-8 Dipropylene glycol monomethyl ether

WEL

 Long-term value
 308
 mg/m3

 50
 ppm

Sk

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

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BMGV

240 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: butoxyacetic acid

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 inhale gases / fumes / aerosols.

Do not inhale dust / smoke / mist. 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
- 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
- Body protection: Protective work clothing

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties			
Appearance			
Appearance:			
Form:	Liquid		
Colour:	According to product specifica		
Odour:	Characteristic Characteristic		
Odour threshold:	Not determined.		
Change in condition			
Melting point/freezing point:	0 °C		
Initial boiling point and boiling range:	100 °C		
Flash point:	Not applicable.		
Flammability (solid, gas):	Not applicable.		
Ignition temperature:	Undetermined.		
Decomposition temperature:	Not determined.		
Auto-ignition temperature:	Not determined.		
Explosive properties:	Not determined.		
Explosion limits:			
Lower:	Not determined.		
Upper:	Not determined.		
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Vapour pressure:	at 20 °C 23,0000 mbar	
Density:	1,0300 g/cm3	
Solubility in / Miscibility with		
water:	Not determined.	
Viscosity:		
	Not determined.	
	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
- · LD/LC50 values relevant for classification:

57-55-6 Propylene glycol

Oral, LD50: 2000 mg/kg (rat) Dermal, LD50: 20800 mg/kg (Rabbit) 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: 5135 mg/kg (rat) Dermal, LD50: >19000 mg/kg (Rabbit) Oral, LD50: 10000 mg/kg (rat) Oral, LD50: 1470 mg/kg (rat) Dermal, LD50: >2000 mg/kg (rat) Inhalative, LC50/4h: >6,89 mg/l (rat) Oral, LD50: >5000 mg/kg (rat)

111-76-2 2-butoxyethanol

34590-94-8 Dipropylene glycol monomethyl ether 7631-86-9 silicon dioxide, chemically prepared 55406-53-6 3-lodo-2-propynylbutylcarbamate

1314-13-2 zinc oxide

- Primary irritant effect:
- Skin corrosion/irritation

No irritant effect.

- Serious eye damage/irritation
- No irritating effect.
- Respiratory or skin sensitisation
 No sensitising effects known.

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

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No further relevant information available.

· 12.4 Mobility in soil

No further relevant information available.

- · Ecotoxical effects:
- Remark:
- Harmful to fish
- · Additional ecological information:
- General notes:

Harmful to aquatic organisms

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
- 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

Void

Void

Void

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.

SECTION 14: Transport information

• 14.1 UN-Number ADR

IMDG Void
IATA Void

• 14.2 UN proper shipping name
ADR Void
IMDG Void

• 14.3 Transport hazard class(es)

ADR

Class

IATA

Class Void IMDG

Class Void IATA

• 14.4 Packing group

ADR Void

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IMDG

Void Void

IATA

VC

14.5 Environmental hazards:

Not applicable.

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

Not emplicable.

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
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- National regulations:
- Technical instructions (air):
- · Class Share in %

I 1,40 III 1,57

· 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.

Relevant phrases

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.

H330 Fatal if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

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

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MATERIAL SAFETY DATA SHEET



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ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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.