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# Safety data sheet

# according to 1907/2006/EC, Article 31

Printing date 12.12.2022 Version number 7 (replaces version 6) Revision: 12.12.2022

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

#### 1.1 Product identifier

# Trade name PUR TOP M PLUS

Article number: 6735

### 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 Sealing

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

Manufacturer/Supplier:

Remmers GmbH Remmers (UK) Limited
Bernhard-Remmers-Str. 13 Unit 4 , Lloyds Court

D-49624 Löningen / Germany Manor Royal, Crawley – West Sussex RH10 9QU Tel.: +49(0)5432/83-0 fon +44 (0) 1293 594 010

fon +44 (0) 1293 594 010 fax +44 (0) 1293 594 037

Information department:

Fax: +49(0)5432/3985

Product Safety department: Phone: +44 (0) 1293 594 010

Email: sales@remmers.co.ukk

## 1.4 Emergency telephone number:

National Poisons Information Service (NPIS): In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

24h-Transport Emergency Contact Phone Number:

within USA and Canada: 1-800-424-9300 outside USA and Canada: 001-703-527-3887

#### \* SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

# Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

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

Repr. 1B H360 May damage fertility or the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

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

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms** 





GHS07 GHS08

#### Signal word Danger

#### Hazard-determining components of labelling:

hexamethylene diisocyanate, oligomers dibutyltin dilaurate

bis(2,3-epoxypropyl)cyclohexane-1,2-dicarboxylate

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hexamethylene-di-isocyanate

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

alpha-3-(2H-Benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl)-omega-3-(3-(2H-benzo-triazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)

alpha-3-(3-(2H-Benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxiethylen)

methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate

#### Hazard statements

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

regulations.

#### Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use.

Restricted to professional users.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Mixture of the substances listed below with harmless additions.

CAS: 28182-81-2 hexamethylene diisocyanate, oligomer NLP: 500-060-2 Acute Tox. 4, H332; Skin Sens. 1, H31	
Reg.nr.: 01-2119485796-17- XXXX 01-2119970543-34- XXXX	
CAS: 5493-45-8   bis(2,3-epoxypropyl)cyclohexane-1,2-c EINECS: 226-826-3   Skin Irrit. 2, H315; Eye Irrit. 2, H319; S H317; Aquatic Chronic 3, H412	
CAS: 108-32-7 propylene carbonate EINECS: 203-572-1 Eye Irrit. 2, H319 Index number: 607-194-00-1	≥2.5-<5%
CAS: 41556-26-7   bis(1,2,2,6,6-pentamethyl-4-piperidyl) sellNECS: 255-437-1   Aquatic Acute 1, H400; Aquatic Chronic Sens. 1, H317	
CAS: 104810-47-1 alpha-3-(2H-Benzotriazol-2-yl)-5-tert-b hydroxyphenyl)propionyl)-omega-3-(3-triazol-2-yl)-5-tert-butyl-4-hydroxyphen Aquatic Chronic 2, H411; Skin Sens. 1	(2H-benzo- yl)

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(Contd. of page 2) CAS: 104810-48-2 alpha-3-(3-(2H-Benzotriazol-2-vl)-5-tert-butvl-4-≥1-<2.5% hydroxyphenyl)propionyl-omega-hydroxypoly(oxiethylen) Aquatic Chronic 2, H411; Skin Sens. 1, H317 CAS: 77-58-7 dibutvltin dilaurate ≥0.3-≤0.5% EINECS: 201-039-8 Acute Tox. 3, H301; Muta. 2, H341; Repr. 1B, H360; STOT RE 1, H372; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 CAS: 82919-37-7 methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate 0.25% EINECS: 280-060-4 Aguatic Acute 1, H400; Aguatic Chronic 1, H410; Skin Sens. 1, H317 CAS: 822-06-0 hexamethylene-di-isocyanate ≥0.1-≤0.25% EINECS: 212-485-8 Acute Tox. 2, H330; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT Index number: 615-011-00-1 Reg.nr.: 01-2119457571-37-SE 3, H335, EUH204 XXXX Specific concentration limits: Resp. Sens. 1; H334: C≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %

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

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

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 and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact Wash immediately with water and soap and rinse thoroughly.

After eve contact Rinse opened eve for several minutes under running water.

After swallowing Seek immediate medical advice.

#### 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

symptomatic treatment

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents Use fire fighting measures that suit the environment.

#### 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:**

Wear self-contained breathing apparatus.

Wear full protective suit.

Put on breathing apparatus.

#### **Additional information**

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

Ensure adequate means of retaining the water used for extinguishing

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources Ensure adequate ventilation

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#### 6.2 Environmental precautions:

Do not allow to enter the ground/soil.

Inform responsible authorities in case product reaches bodies of water or sewage system.

Dilute with plenty of water.

#### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of 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 information on disposal.

#### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Use only in well ventilated areas.

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of aerosols.

#### Information about protection against explosions and fires:

Fumes can combine with air to form an explosive mixture.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements to be met by storerooms and containers:

Store only in the original container.

Prevent any penetration into the ground.

#### Information on storage in a common storage facility: none

#### Further information about storage conditions:

Store container in a well ventilated position.

Protect from humidity and keep away from water.

Protect from frost.

Keep container tightly closed.

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Com	ponents with limit values that require monitoring at the workplace:	
CAS:	77-58-7 dibutyltin dilaurate	
WEL	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; Sk	
CAS:	CAS: 822-06-0 hexamethylene-di-isocyanate	
WEL	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO	
Ingredients with biological limit values:		
CAS:	CAS: 822-06-0 hexamethylene-di-isocyanate	
BMG'	V 1 μmol creatinine/mol	

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

**Additional information:** The lists that were valid during compilation were used as a basis.

#### 8.2 Exposure controls

Appropriate engineering controls Use only in well-ventilated areas.

#### Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures

Use skin protection cream for preventive skin protection.

The handling of this product ist not recommended for persons with respiratory system and skin hypersensitivity (asthma, chronic bronchitis, chronic skin disease).

Keep away from food, beverages and animal feed.

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Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evalutated by the employer depending on the types of operations and the local circumstances. If a risk assessment onsite shows that there is no risk for employees, the personal protective euiqment is not required or the amount of the PPE can be adpated accordingly.

#### Respiratory equipment:

Short term filter device:

Filter A/P2.

In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

### **Hand protection**

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 Nitrile rubber, NBR

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 determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

# Eye/face protection Face protection

Body protection: Protective work clothing.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**General Information** 

Physical state Fluid

**Colour:** According to product specification

Odour:CharacteristicOdour threshold:Not determined.Melting point/freezing point:Not determined

Boiling point or initial boiling point and boiling

range Not determined Flammability Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.

Flash point: 180 °C
Ignition temperature: not applicable
Decomposition temperature: Not determined.
pH Not determined.

Viscosity:

**Kinematic viscosity dynamic:**Not determined.
Not determined.

Solubility

Water: Fully miscible
Partition coefficient n-octanol/water (log value) Not determined.
Vapour pressure: Not determined.

Density and/or relative density

**Density at 20 °C:** 1.159 g/cm<sup>3</sup>

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Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance: Form:	Liquid
Important information on protection of health	
and environment, and on safety.	ı
Explosive properties:	Product is not explosive
Solvent separation test	Product is not explosive.
VOC EU	
Solid content:	39.6 g/l
	37.3 %
Change in condition	Not determined.
Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

# **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 handled and stored according to specifications.

10.3 Possibility of hazardous reactions

Exothermic reaction with amines and alcohols.

With water carbon dioxide development, pressure build-up in closed containers.

Danger of bursting

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

**Amines** 

Alcohols

10.6 Hazardous decomposition products:

None if used properly.

None if stored properly.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Harmful if inhaled.

LD/LC5	0 values that are relevant for classification:
CAS: 28182-81-2 hexamethylene diisocyanate, oligomers	
Oral	LD50 >2,500 mg/kg (rat)

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Dermal LD50 >2,000 mg/kg (rat)

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met. **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.

**Sensitisation:** May cause an allergic skin reaction.

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: May damage fertility or the unborn child.

STOT-single exposure: May cause respiratory irritation.

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.

Additional toxicological information:

Special characteristics/effects of isocyanates:

In case of over-exposure - especially when spraying isocyanate based varnishes without protective measures - there is a danger of a concentration-dependent, irritating effect on eyes, nose, throat, and respiratory tract. The delayed appearance of symptoms and the development of hypersensitivity (trouble breathing, cough, asthma) are possible. For hypersensitive persons, reactions may be triggered by very low isocyanate concentrations, also below the TLV value. In case of prolonged contact with skin, tanning and irritating effects are possible.

#### 11.2 Information on other hazards

# **Endocrine disrupting properties**

None of the ingredients is listed.

# \* SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

# 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects Remark: Harmful to fish

Additional ecological information:

**General notes:** 

Do not allow product to reach ground water, bodies of water or sewage system.

Harmful to aquatic organisms

#### SECTION 13: Disposal considerations

#### Recommendation

Do not dispose of together with household garbage. Do not allow product to reach sewage system. The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

ſ	European	waste catalogue
ſ	08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
ſ	08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

#### Uncleaned packaging:

#### Recommendation:

Disposal must be made according to official regulations.

Packaging can be reused or recycled after cleaning.

Recommended cleaning agent: Water, if necessary with cleaning agent.

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SECTION 14: Transport information	
14.1 UN number or ID 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 Maritime transport in bulk accordin IMO instruments	ng to Not applicable.
Transport/Additional information:	Not a hazardous good according to the above regulations.
UN "Model Regulation":	Void

### **SECTION 15: Regulatory information**

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

#### Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 20, 30, 74

Regulation (E	U) No 649/2012	
CAS: 77-58-7	dibutyltin dilaurate	Annex I Part 1
DIRECTIVE 2011/65/Ell on the restriction of the use of certain hazardous substances in		

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

#### **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

# **National regulations**

#### Other regulations, limitations and prohibition ordinances

From the European Committee of the Associations for varnish, printing ink and artistry paint producers - CEPE - the following information is given for isocyanate based coating materials:

Ready-to-use coating materials that contain isocyanates may have an irritating effect on mucous membranes - especially on respiratory organs - and cause hypersensitivity reactions. There is a risk of sensitization if vapours or sprayed mist are inhaled. When handling isocyanate based coating materials, all measures for solvent based coating materials must be strictly observed. Sprayed mist and vapours especially should not be inhaled.

Persons with allergies or asthma who have a tendency for respiratory tract ailments should not be allowed to work with isocyanate based coating materials.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

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Delivery specifications are found in the respective Technical Information Sheets.

Relevan	t phrases
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

EUH204 Contains isocyanates. May produce an allergic reaction. Classification according to Regulation (EC) No 1272/2008 Calculation method

Department issuing data specification sheet: Product Safety department / EHS Date of previous version: 20.05.2020

Version number of previous version: 6 Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - Category 3

Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2

Repr. 1B: Reproductive toxicity - Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3