

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 04.07.2007

Revision: 04.07.2007

1 Identification of substance

- **Product details**
- **Trade name** **PUR Color Top CPD, Comp. B**
- **Article number:** 9944
- **Application of the substance / the preparation** Coating
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
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D-49624 Lönningen
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- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
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U.K.: Tel.: +44 (0) 845 373 0103
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2 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 10 Flammable.

R 20/21 Harmful by inhalation and in contact with skin.

R 43 May cause sensitisation by skin contact.

Contains isocyanates. See information supplied by the manufacturer

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**

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

- **Dangerous components:**

CAS: 28182-81-2	aliphatic polyisocyanate	Xi; R 43	> 70%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	Xi; R 10-36	< 15%
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixed isomers, pure	Xn, Xi; R 10-20/21-38	< 12.5%

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CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene	Xn, F; R 11-20	< 5%
CAS: 822-06-0 EINECS: 212-485-8	hexamethylene diisocyanate	T, Xi; R 23-36/37/38-42/43	< 0.5%

· **Additional information** For the wording of the listed risk phrases refer to section 16.

4 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 bring patient into stable side position for transport.

· After skin contact

Wash immediately with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

· After swallowing

Rinse out mouth immediately with plenty of water and administer plenty of water in small swallows (diluting effect).

Do not induce vomiting; call for medical help immediately.

5 Fire fighting measures

· Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· For safety reasons unsuitable extinguishing agents

Water with a full water jet.

· Special hazards caused by the material, its products of combustion or flue gases:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

· Protective equipment:

Wear self-contained breathing apparatus.

· Additional information

Cool endangered containers with water spray jet.

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

6 Accidental release measures

· Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

· Measures for environmental protection:

Do not allow to enter sewage system, surface or ground water.

· Measures for cleaning/collecting:

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.

7 Handling and storage

· Handling

· Information for safe handling:

Ensure good ventilation/exhaust in workplaces.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Storage

· Requirements to be met by storerooms and containers:

Store only in the original container.

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- **Information on storage in a common storage facility:** Store away from food.
- **Further information about storage conditions:**
Keep container tightly closed.
Do not store under 5°C.
Storage at max. 25 °C

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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1330-20-7 xylene, mixed isomers, pure

WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm
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822-06-0 hexamethylene diisocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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- **Additional information:** The lists that were valid during compilation were used as a basis.

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from food, beverages and animal feed.
Immediately remove soiled, saturated clothing.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.

- **Respiratory equipment:**

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.
In case of a risk of inhaling, wear half-mask with combination filter for organic vapours and particles.
Filter A/P2.

- **Protection of hands:** Impervious gloves

- **Material of gloves**

Butyl rubber, BR
Fluorocarbon rubber (Viton)

- **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.

- **Eye protection:**

Tightly sealed safety glasses.
Face protection

- **Body protection:**

Protective work clothing.
Safety boots

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9 Physical and chemical properties:

· General Information	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
· Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	145°C
· Flash point:	38°C
· Ignition temperature:	460°C
· Self-inflammability:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.
· Explosive Limits:	
Lower:	1.0 Vol %
Upper:	10.8 Vol %
· Vapour pressure at 20°C:	7 - 9 mbar
· Density at 20°C	1.07 g/cm ³
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
· Viscosity:	
dynamic at 20°C:	225 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
No decomposition if handled and stored according to specifications.
- **Materials to be avoided:**
Amines
Alcohols
- **Dangerous reactions** No dangerous reactions known
- **Dangerous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8500 mg/kg (Ratte)
Inhalative	LC50/4 h	35.7 mg/l (Ratte)
1330-20-7 xylene, mixed isomers, pure		
Oral	LD50	8700 mg/kg (Ratte)
Dermal	LD50	2000 mg/kg (Kaninchen)
Inhalative	LC50/4 h	6350 mg/l (Ratte)

- **Primary irritant effect:**
- **on the skin:** slightly irritating
- **on the eye:** Light irritating effect possible.
- **Sensitisation:** Sensitisation possible by skin contact.

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· **Additional toxicological information:**

The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

· **General notes:**

Water hazard class 2 : hazardous to water.

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

Hazardous to drinking water even if small quantities leak into soil.

13 Notes on disposal:

· **Product:**

· **Recommendation**

Do not dispose of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 05 00	wastes not otherwise specified in 08
08 05 01	waste isocyanates

· **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 3 (F1) Flammable liquids.

· **UN-Number:** 1866

· **Packaging group:** III

· **Danger sign:** 3

· **Designation of goods:** 1866 RESIN SOLUTION

· **Maritime transport IMDG/GGVSea:**



· **IMDG/GGVSea Class:** 3

· **UN Number:** 1866

· **Label:** 3

· **Packaging group:** III

· **Marine pollutant:** No

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· **Correct technical name:** RESIN SOLUTION· **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1866
- **Label** 3
- **Packaging group:** III
- **Correct technical name:** RESIN SOLUTION

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**

Xn Harmful

· **Hazard-determining components of labelling:**

aliphatic polyisocyanate

· **Risk phrases:**

- 10 Flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 43 May cause sensitisation by skin contact.

· **Safety phrases:**

- 16 Keep away from sources of ignition - No smoking.
- 24 Avoid contact with skin.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.

· **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

· **National regulations**· **Technical instructions (air):**

Class	Proportion in %
I	≤0,5
NK	20-<40

· **Water hazard class:** Water hazard class 2: hazardous to water.

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. Delivery specifications are found in the respective Technical Information Sheets.

· **Relevant R-phrases**

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.

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20/21 Harmful by inhalation and in contact with skin.

23 Toxic by inhalation.

36 Irritating to eyes.

36/37/38 Irritating to eyes, respiratory system and skin.

38 Irritating to skin.

42/43 May cause sensitisation by inhalation and skin contact.

43 May cause sensitisation by skin contact.

· **Department issuing data specification sheet:** Product Safety department

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