

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 06.07.2010

Revision: 06.07.2010

1 Identification of substance

- **Product details**
- Trade name **PUR Flex Coating**
- **Article number:** 2551, 2556
- **Application of the substance / the preparation** Coating
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
Postfach 1255
D-49624 Lönningen / Germany
Tel.: 05432/83-0
Fax: 05432/3985
- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
E-Mail: sales@remmers.co.uk
- **Emergency information:**
during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
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after working hours: Tel.: +49 (0)171/6428-297

2 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**
R 42 May cause sensitisation by inhalation.
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**

- **Dangerous components:**

CAS: 101-68-8	diphenylmethane-4,4'-di-isocyanate	≤1.0%
EINECS: 202-966-0	Xn, Xi; R 20-36/37/38-40-42/43-48/20	
CAS: 41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacat	≤1.0%
	Xi, N; R 43-51/53	

4 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.

In case of irregular breathing or respiratory arrest, provide artificial respiration.

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- **After inhalation**
Take affected persons into the open air and position comfortably
Seek medical treatment.
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.
Call a doctor immediately.
- **After swallowing**
Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.
Keep the person affected quiet.
- **Information for doctor**
- **The following symptoms may occur:**
In case of prolonged/repeated exposure or in high concentrations:
Irritating effect on skin and eyes.
Irritating effect on respiratory organs.
- **Treatment** symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents** Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents** Water.
- **Special hazards caused by the material, its products of combustion or flue gases:**
May be released in case of fire
Carbon monoxide (CO)
Carbon dioxide
Nitrogen oxides (NOx)
Nitrous gases
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
- **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.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Measures for environmental protection:**
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
Inform responsible authorities in case product reaches bodies of water or sewage system.
Inform responsible authorities if the product penetrates into the ground.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable containers.
Ensure adequate ventilation.
Place leaking containers in a marked drum or recovery drum.

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· **Additional information:** See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Use only in well ventilated areas.
Avoid the formation of aerosols.
- **Information about protection against explosions and fires:** No special requirements.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information on storage in a common storage facility:** none
- **Further information about storage conditions:**
Store cool and dry in tightly closed containers.
Store container in a well ventilated position.
Protect from humidity and keep away from water.
Protect from heat and direct sunlight.
Storage at max. 25 °C

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** Use only in well-ventilated areas.

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

101-68-8 diphenylmethane-4,4'-di-isocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from food, beverages and animal feed.
Immediately remove soiled, saturated clothing.
Do not eat, drink or smoke while working.
Apply solvent-resistant skin protection preparation before beginning work.
Wash hands before pauses and after work.
Be sure to clean skin thoroughly before pauses and after work.
Avoid contact with eyes and skin.
Store protective clothing separately.
Do not inhale gases / vapours / aerosols.
The handling of this product ist not recommended for persons with respiratory system and skin hypersensitivity (asthma, chronic bronchitis, chronic skin disease).
- **Respiratory equipment:**
In case of a risk of inhaling, wear half-mask with combination filter for organic vapours and particles.
Short term filter device:
Filter ABEK/P2
- **Protection of hands:** Protective gloves.
- **Material of gloves**
PVC gloves
Neoprene gloves
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.

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· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

Form:	Viscous
Colour:	According to product specification
Odour:	Mild

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 150°C

· **Flash point:** > 62°C· **Self-inflammability:** Product is not self-igniting.· **Danger of explosion:** Product is not explosive.· **Density at 20°C** 1.05 g/cm³· **Solubility in / Miscibility with Water:** unsolubly as resin; reacts s. Point 10· **Viscosity:**
dynamic at 20°C: 5000 mPas· **Solvent content:**
Organic solvents: 0.0 %

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.
 Avoid: heat, flames, sparks
 Avoid the entrance of moisture

· **Dangerous reactions** No dangerous reactions occur when used according to directions.

· Dangerous decomposition products:

None if stored properly.
 None if used properly.
 May be released in fire:
 Carbon monoxide
 Carbon dioxide
 Nitrogen oxides (NO_x)
 Nitrous vitriol gases

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

101-68-8 diphenylmethane-4,4'-di-isocyanate

Oral	LD50	> 15000 mg/kg (Ratte)
Inhalative	LC50/4 h	ca. 0.490 mg/l (Ratte)

· Primary irritant effect:

· on the skin:

May cause irritation.

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- Dries skin out.
- **on the eye:** May cause irritation.
- **Sensitisation:** The product may have a sensitising effect on sensitive persons.
- **Sensitisation** May cause sensitisation by inhalation.

12 Ecological information:

- **General notes:**
Water hazard class 1 : slightly hazardous to water.
Do not allow product to reach ground water, bodies of water or sewage system.

13 Notes on disposal:

- **Product:**
- **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.

- **European waste catalogue**

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
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- **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:** -

- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not a hazardous good according to the above regulations.

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Guidelines / relevant national laws.
- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining components of labelling:**
diphenylmethane-4,4'-di-isocyanate
- **Risk phrases:**
42 May cause sensitisation by inhalation.
- **Safety phrases:**
23 Do not breathe fumes/aerosol.

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38 In case of insufficient ventilation, wear suitable respiratory equipment.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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**

· **Water hazard class:**

Water hazard class 1: slightly hazardous to water.
according to appendix 4 VwVwS

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**

20 Harmful by inhalation.

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

40 Limited evidence of a carcinogenic effect.

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

43 May cause sensitisation by skin contact.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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