

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010



Article no.: 54.51.010.4  
Date of print: 19.05.2012  
version: 000001-0000

D PUR PLUS Strukturlack 2K  
Revision date: 11.05.2012  
Date of issue: 04.08.2011

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## 1. Identification of the substance/ preparation and of the company/ undertaking

### 1.1. Product identifiers:

Article no. (manufacturer / supplier): 54.51.010.4  
Identification of the substance or preparation: D PUR PLUS Strukturlack 2K  
RAL 5015 halbgläzend (6:1)

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

### Name of the company:

Warnecke & Böhm GmbH  
Westerbergstr. 12  
83727 Schliersee

Phone: +49 (0)8026 9407-0

Fax: + 49 8026 20067

### Department responsible for information:

Labor

Email: info@wb-coatings.de

phone: +49 8026 9407-0

### Emergency:

Poison controll center Munich phone: +49 89 19240

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP):

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Flam. Liq. 3 / H226

Flammable liquids:

Flammable liquid and vapour.

#### Classification according to Directive 67/548/EEC or 1999/45/EC

The preparation is dangerous in the sense of Directive 1999/45/EC.

R10

Flammable.

### 2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

#### Labelling (CLP)

##### Hazard pictograms



Warning

#### Hazard Statements:

H226 Flammable liquid and vapour.

#### Safety precautions:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370 + P378 In case of fire: Use foam for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to industrial incineration plant.

P101 If medical advice is needed, have product container or label at hand.

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P102 Keep out of reach of children.  
 P103 Read label before use.

**contains:**  
 n-butyl acetate  
 xylene  
 Solvent naphtha (petroleum), light arom.  
 Reaction produkt mixture Diamid Wax  
 reaction product: bisphenol-A-(epichlorhydrin)

**Supplemental Hazard information (EU):**  
 EUH208 Contains reaction product: bisphenol-A-(epichlorhydrin) .May produce an allergic reaction.

**Labelling (67/548/EEC or 1999/45/EC)**

**Hazard Statements:**  
 10 Flammable.

**Safety precautions:**  
 2 Keep out of the reach of children.  
 46 If swallowed, seek medical advice immediately and show this container or label.  
 51 Use only in well-ventilated areas.  
 23 Do not breathe vapour.

**contains:**  
 n.a.

**Special provisions concerning the labelling of certain mixtures**  
 99 Contains reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700). May produce an allergic reaction.

2.3. Other hazards

**3. Composition/ Information on ingredients**

3.2. Mixtures

**chemical characterization (preparation)**

**Description:** polyacrylic/polyester resin

**Hazardous ingredients:**

**Classification according to EC regulation 1272/2008 (CLP):**

EC No: CAS No.: INDEX no.:	REACH No: chemical name: classification:	% by weight Remark:
204-658-1 123-86-4 607-025-00-1	01-2119485493-29-00007 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336	12,5 - 15
215-535-7 1330-20-7 601-022-00-9	01-2119486136-34-XXXX xylene Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / STOT RE 2 H373 / STOT SE 3 H335	7 - 8
265-199-0 64742-95-6 649-356-00-4	Solvent naphtha (petroleum), light arom. Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411	2 - 3
	Reaction produkt mixture Diamid Wax Skin Sens. 1 H317 / Aquatic Chronic 4 H413	0,3 - 0,5
500-033-5 25068-38-6 603-074-00-8	01-2119456619-26-0001 reaction product: bisphenol-A-(epichlorhydrin) Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	0,3 - 0,5

**Classification according to Directive 67/548/EEC or 1999/45/EC**

EC No: CAS No.: INDEX no.:	REACH No: Identification of the hazard: classification:	% by weight Remark:
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204-658-1		12,5 - 15
123-86-4	n-butyl acetate	
607-025-00-1	R10 / R66 / R67	
215-535-7	01-2119486136-34-XXXX	7 - 8
1330-20-7	xylene, mixture of isomers	
601-022-00-9	R10 / Xn; R20/21 / Xi; R38	
265-199-0		2 - 3
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	
649-356-00-4	R10 / Xi; R37 / N; R51-53 / Xn; R65 / R66	
203-603-9		2 - 3
108-65-6	2-methoxy-1-methylethyl acetate	*
607-195-00-7	R10	
	Reaktionsprodukt Mixtur Diamid Wax	0,3 - 0,5
	R43 / R53	
500-033-5		0,3 - 0,5
25068-38-6	reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average	
603-074-00-8	molecular weight <= 700)	
	Xi; R36/38 / R43 / N; R51-53	
204-881-4		0 - 0,0
128-37-0	2,6-Di-tert-butyl-p-kresol	
	Xi; R36/38	

**Additional information**

\* Substance with a common (EC) occupational exposure limit value.

Full text of R-phrases: see section 16.

Full text of H-phrases: see section 16.

**4. First-aid measures**

**4.1. Description of first aid measures:**

**General information:**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

**In case of skin contact:**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**In case of eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

**After ingestion:**

If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed:**

In all cases of doubt, or when symptoms persist, seek medical advice.

**4.3. Indication of any immediate medical attention and special treatment needed**

**5. Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media:**

alcohol resistant foam, Carbon dioxide, Powder, spray mist, (water)

**Extinguishing media which must not be used for safety reasons:**

Strong water jet

**5.2. Special hazards arising from the substance or mixture**

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Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. Cool closed containers that are near the source of the fire.

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental measures**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see chapter 7 and 8).

**7. Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protective equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Precautions against fire and explosion:**

Vapours are heavier than air and will spread at floor level. Vapours form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storerooms and containers:**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**8. Exposure controls / Personal protection**

**8.1. Control parameters**

EC No: CAS No.:	Description:	type:	Limit value		unit
			STEL (EC)	TWA (EC)	
215-535-7 1330-20-7	xylene, mixture of isomers	EN	441	220	mg/m3
204-658-1 123-86-4	n-butyl acetate	EN	100	50	ppm
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	EN	966	724	mg/m3
			200	150	ppm
			548	274	mg/m3
			100	50	ppm

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238-877-9	Talk,asbestfrei Magnesiumsilikat, hydratisiert Talkum		1	mg/m3
14807-96-6	Speckstein E 553b	EN		
236-675-5	Titandioxid		4	mg/m3
13463-67-7		EN		
204-881-4	2,6-Di-tert-butyl-p-kresol		10	mg/m3
128-37-0		EN		

**Additional information**

TWA (EC): Occupational exposure limit value  
 STEL (EC): Short term occupational exposure limit value

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Occupational exposure controls:**

**Respiratory protection:**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection:**

For prolonged or repeated handling the following glove material must be used: such as nitrile rubber (DIN EN 374)  
 Thickness of the glove material: > 0,4 mm ; penetration time (maximum wearing period): > 480 min.  
 Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: DIN EN 374  
 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye protection:**

Wear closely fitting protective glasses in case of splashes.

**Body protection:**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures:**

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. refer to chapter 7. No further action is necessary.

**9. Physical and chemical properties**

**9.1. information on basic physical and chemical properties**

**Appearance:**

**Physical state:** liquid  
**Colour:** as labeled  
**Odour:** characteristic

Safety relevant basis data	unit	Method	Remark:
Flash point:	> 23 °C	DIN 53213	
Ignition temperature (AIT):	315 °C		
lower explosion limit:	0,8 Vol-%		
Upper explosion limit:	10,6 Vol-%		
Vapour pressure at 20 °C:	2,39 mbar		
density at 20 °C:	1,549 g/cm³	DIN 53217	
Water solubility (g/l):	insoluble		
pH at 20 °C:	-		
Viscosity at °C	700-1300 mPa.s/D70-s		
Solvent separation test (%):	< 3 %		
Solid content (%):	73 % by weight		
solvent content:			
Organic solvents:	27 % by weight		
Water:	0 % by weight		

**9.2. Other information:**

**10. Stability and reactivity**

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**10.1. Reactivity**

**10.2. Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

**10.3. Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

**10.4. Conditions to avoid**

Hazardous decomposition byproducts may form with exposure to high temperatures.

**10.5. Incompatible materials**

**10.6. Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

**11. Toxicological information**

No data on preparation itself available.

**11.1. Information on toxicological effects**

**Acute toxicity**

reaction product: bisphenol-A-(epichlorhydrin)

oral, LD50, Rat: > 3000 mg/kg

**Irritant and corrosive effects**

Toxicological data are not available.

**Sensitisation**

reaction product: bisphenol-A-(epichlorhydrin)

Skin, Guinea pig; Evaluation: Sensitising

**Specific target organ toxicity**

Toxicological data are not available.

**Aspiration hazard:**

Toxicological data are not available.

**Practical experience**

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall Assessment on CMR properties:**

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

**12. Ecological information**

**Overall evaluation:**

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

Toxicological data are not available.

**12.2. Persistence and degradability**

Toxicological data are not available.

**12.3. Bioaccumulative potential**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

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**12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

**13. Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product**

**Recommendation:**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

**Control report for waste code/ waste marking according to EAKV:**

080111 waste paint and varnish containing organic solvents or other dangerous substances

**Contaminated packaging:**

**Recommendation:**

Cleaned containers may be recycled. Vessels not properly emptied are special waste.

**14. Transport information**

**14.1. UN-No.:**

Land transport (ADR/RID):	1263
Sea transport (IMDG):	n.a.
Air transport (ICAO-TI / IATA-DGR):	1263

**14.2. UN proper shipping name**

Land transport (ADR/RID):	Paint
Sea transport (IMDG):	Transport in accordance with 2.3.2.5 of the IMDG Code.
Air transport (ICAO-TI / IATA-DGR):	Paint

**14.3. Transport hazard class(es)**

Land transport (ADR/RID):	No good according class 3 bei Gebinden > 450 l Klasse 3
Sea transport (IMDG)	n.a.
Air transport (ICAO-TI / IATA-DGR)	3

**14.4. Packing Group:**

Land transport (ADR/RID):	III
Sea transport (IMDG):	n.a.
for packages > 30 litres:	III
Air transport (ICAO-TI / IATA-DGR):	III

**14.5. Environmental hazards:**

Land transport (ADR/RID)	n.a.
Marine pollutant:	n.a.

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further remarks:**

**Land transport (ADR/RID)**

Tunnel restriction code: D/E

**Sea transport (IMDG)**

EmS-No.: n.a.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

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**15. Regulatory information**

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

**EU legislation**

**Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).**

VOC-value (in g/l) ISO 11890-2: 419,961  
 VOC-value (in g/l) ASTM D 2369: 419,961

**National regulations**

**Informations on working limitations:**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
 Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

**16. Other information**

**Relevant R-and H-phrases (Number and full text):**

Flam. Liq. 3 / H226	Flammable liquids:	Flammable liquid and vapour.
STOT SE 3 / H336	Specific target organ toxicity (single exposure):	May cause drowsiness or dizziness.
Acute Tox. 4 / H312	Acute toxicity (dermal):	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative):	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation:	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.
Asp. Tox. 1 / H304	Aspiration hazard:	May be fatal if swallowed and enters airways.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure):	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT SE 3 / H335	Specific target organ toxicity (single exposure):	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment:	Toxic to aquatic life with long lasting effects.
Skin Sens. 1 / H317	Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Aquatic Chronic 4 / H413	Hazardous to the aquatic environment:	May cause long lasting harmful effects to aquatic life.
R10		Flammable.
Xn; R20/21	Harmful	Harmful by inhalation and in contact with skin.
Xi; R38	Irritant	Irritating to skin.
R66		Repeated exposure may cause skin dryness or cracking.
R67		Vapours may cause drowsiness and dizziness.
R43		May cause sensitization by skin contact.
R53		May cause long-term adverse effects in the aquatic environment.
Xi; R36/38	Irritant	Irritating to eyes and skin.
N; R51-53	Dangerous for the environment	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Xi; R37	Irritant	Irritating to respiratory system.
Xn; R65	Harmful	Harmful: may cause lung damage if swallowed.

**Further remarks:**

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.