

# Material Safety Data Sheet

according to 91/155/EEC



**Product name :** 2K-PUR-AC LACK, GLÄNZEND (SORTE 5720)  
**Revision :** 18.06.2004      **Version :** 3.0.0  
**Print date :** 09.02.2005

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## 01. Identification of substance, preparation and company

### Product name:

2K-PUR-AC LACK, GLÄNZEND (SORTE 5720)

### Use of the substance / preparation

Solvent-based coating. Intended purpose see product description.

### Manufacturer/Supplier

Brillux Unna  
Industrielacke

### Street/P.O.Box

Otto-Hahn-Straße 14

### Country code/Postal code/Town/City

59423 Unna

### Telephone / Telefax

+49/ 2303 / 8805 -0 / +49/ 2303 / 8805-119

### Emergency information

After the office hours:  
(Advisory board for symptom of poisoning, Berlin)  
Telephon: +4930 /19 240

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## 02. Composition/information on ingredients

### Hazardous components

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; EC-No. : 265-199-0 ; CAS-No. : 64742-95-6

Percentage : 20 - 25 %

Classification : R 10 N ; R 51/53 Xn ; R 65 Xi ; R 37 R 67 R 66

XYLENE ; EC-No. : 215-535-7 ; CAS-No. : 1330-20-7

Percentage : 10 - 15 %

Classification : R 10 Xn ; R 20/21 Xi ; R 38

N-BUTYL ACETATE ; EC-No. : 204-658-1 ; CAS-No. : 123-86-4

Percentage : 5 - 10 %

Classification : R 10 R 67 R 66

3-METHOXYBUTYL ACETATE ; EC-No. : 224-644-9 ; CAS-No. : 4435-53-4

Percentage : 1 - 5 %

Classification : Xi ; R 36

2-METHOXY-1-METHYLETHYL ACETATE ; EC-No. : 203-603-9 ; CAS-No. : 108-65-6

Percentage : 0,5 - 1 %

Classification : R 10 Xi ; R 36

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## 03. Hazards identification

### Hazard designation

Flammable · Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Vapours may cause drowsiness and dizziness

Classification : R 10 · R 52/53 · R 67 · R 66

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## **Additional information**

This product is dangerous concerning EC-guideline 1999/45/EC.

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## **04. First-aid measures**

### **General**

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention.  
Unconsciousness: lateral position - call a physician.

### **After inhalation**

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor in case.

### **After skin contact**

Wash away with soap and water and rinse. Do NOT use solvents or thinners.

### **After eye contact**

Flush with plenty of water (10 - 15 min.). Call a doctor in case.

### **After ingestion**

Call a doctor and tell him the exactly substance. Keep at rest. Do not induce vomiting.

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## **05. Fire-fighting measures**

### **Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

### **Unsuitable extinguishing media**

Waterjet.

### **Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### **Special protective equipment**

Appropriate breathing apparatus may be required.

### **Additional information**

Cool endangered containers with water in case of fire.

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## **06. Accidental release measures**

### **Personal precautions**

Remove ignition sources. Provide for sufficient ventilation. Refer to protective measures listed in sections 7 and 8.

### **Environmental precautions**

Prevent seepage into ground, water and sewage system. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### **Methods for cleaning up/collecting**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

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## **07. Handling and storage**

### **Information for safe handling**

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Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

## Information about protection against explosions and fires

Keep away from ignition sources - No smoking. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take precautionary measures against static discharges. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

## Requirements to be met by storerooms and containers

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Make sure that ventilation is adequate. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store the foodstuffs separately.

## Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep containers dry and cool.

**Storage class (VCI) :** 3A

## Specific uses

Solvent-based coating. Intended purpose see product description.

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## 08. Exposure controls and personal protection

### Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Components with critical values that require monitoring at the workplace (exposure limits)

XYLENE ; CAS-No. : 1330-20-7

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )

Value : 100 ppm / 440 mg/m<sup>3</sup>

Category : 4

Remarks : H

Version date : 01.09.2003

Specification : TRGS 903 - biological workplace tolerance values ( D )

Parameter : Xylene / whole blood / end of exposure or shift

Value : 1,5 mg/l

Version date : 01.05.2002

Specification : TRGS 903 - biological workplace tolerance values ( D )

Parameter : Methylhippuric acid / urine / end of exposure or shift

Value : 2 g/l

Version date : 01.05.2002

Specification : Short term exposure limit ( EC )

Value : 100 ppm / 442 mg/m<sup>3</sup>

Remarks : H

Version date : 08.06.2000

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Version date : 08.06.2000  
Specification : threshold limit value ( EC )  
Value : 50 ppm / 221 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

N-BUTYL ACETATE ; CAS-No. : 123-86-4

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
Value : 100 ppm / 480 mg/m<sup>3</sup>  
Category : = 1 =  
Remarks : Y  
Version date : 01.09.2003

2-METHOXY-1-METHYLETHYL ACETATE ; CAS-No. : 108-65-6

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
Value : 50 ppm / 270 mg/m<sup>3</sup>  
Category : = 1 =  
Remarks : Y  
Version date : 01.09.2003

Specification : Short term exposure limit ( EC )  
Value : 100 ppm / 550 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

Specification : threshold limit value ( EC )  
Value : 50 ppm / 275 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

## Personal protective equipment

### Respiratory protection

Take breathing protection measures (see also instr. to avoid accidents). Respiration protection when spraying: combination filter A2-P2.

### Hand protection

Use protective gloves. Suitable glove materials: fluoro-rubber, butyl-rubber or nitrile-rubber. Please pay attention to the glove penetration times of the solvents named below in chapter 2, according to the glove manufactures. After washing hands replace lost skin fat by fat containing skin creams.

### Eye protection

Use safety glasses.

### Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

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## 09. Physical and chemical properties

### Image

**Form :** Liquid.  
**Colour :** According to product identification.  
**Odour :** Like solvent.

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## Relevant safety data

<b>Boiling point / range :</b>	( 1013 hPa )	ca.	120 - 200	°C
<b>Flash point :</b>			23 - 55	°C
<b>Lower explosion limit :</b>		<	2	% b.v.
<b>Upper explosion limit :</b>		<	10	% b.v.
<b>Vapour pressure :</b>	( 50 °C )		not determined	
<b>Density :</b>	( 20 °C )		1 - 1,5	g/cm <sup>3</sup>
<b>Solvent-separation test :</b>	( 20 °C )	<	3	%
<b>Flow time :</b>	( 20 °C )		60 - 90	s      DIN-cup 4 mm

## Additional information

The physical specifications are approximate values and refer to the used safety relevant component(s).

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## 10. Stability and reactivity

### Conditions to avoid

Stable under recommended storage and handling conditions (See section 7).

### Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### Hazardous decomposition products

None, if handled according to order. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

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## 11. Toxicological information

### Experience on practice

There are no data available on the product itself. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: irritation.

### Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

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## 12. Ecological information

### Details on elimination (persistence / degradability)

There are no data available on the product itself.

### Additional ecological information

Do not empty into waters or drains.

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## 13. Disposal considerations

### Product

#### Recommendation

Can be taken to a suitable incineration centre in observance of local regulations.

#### Waste key

EWC-Code: 08 01 11.

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## Contaminated packaging

### Recommendation

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

### Waste key

Uncleaned packaging: EWC-Code: 15 01 10. Cleaned packaging: EWC-Code: 15 01 04.

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## 14. Transport information

### Land transport ADR/RID

#### Classification

**Class :** 3      **Kemlercode :** 30  
**Substance number :** 1263      **Classification-Code :** F1

ADR : - (<= 450 l) · Special provisions : 640E · LQ 7

#### Proper shipping name

PAINT

#### Packaging

**Packaging group :** III  
**Label :** 3

### Maritime transport IMDG/GGVSea

#### Classification

**IMDG-Code :** 3      **EmS number :**  
**UN number :** 1263      **Marine Poll. :** -

IMDG 2.3.2.5 (<= 30 l) · LQ 5 l

#### Proper shipping name

PAINT

#### Packaging

**Packaging group :** III  
**Label :** 3

### Air transport ICAO-TI and IATA-DGR

#### Classification

**Class :** 3  
**UN number :** 1263

#### Proper shipping name

PAINT

#### Packaging

**Packaging group :** III  
**Label :** 3

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## 15. Regulatory information

### Classification according to EEC directives

#### R-phrases

10      Flammable  
52/53      Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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67                      Vapours may cause drowsiness and dizziness  
66                      Repeated exposure may cause skin dryness or cracking

#### **S-phrases**

61                      Avoid release to the environment. Refer to special instructions/Safety data sheets.  
35                      This material and its container must be disposed of in a safe way  
51                      Use only in well-ventilated areas.  
24                      Avoid contact with skin  
17                      Keep away from combustible material

#### **National regulatory information**

##### **Regulation on inflammable liquids (VbF)**

VbF-Class : Not dangerous according to VbF

##### **Emission control act ("TA-Luft")**

Sum organic substances class II : 20 - 25 %

##### **Water pollution classification**

Class : 2 according VwVwS

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## **16. Other information**

### **Further information**

#### **Relevant changes**

02. Hazardous components · 08. Components with critical values that require monitoring at the workplace (exposure limits) · 14. Land transport ADR/RID and GGVS/GGVE (2003) · 14. Classification (ADR) · 14. Proper shipping name (ADR) · 14. Maritime transport IMDG/GGVSea · 14. Classification (IMDG) · 15. Danger symbol and danger designation · 15. Hazard-determining components of labelling · 15. R-phrases · 15. S-phrases · 15. Emission control act ("TA-Luft")

#### **R-Phrases of components**

10                      Flammable  
20/21                      Harmful by inhalation and in contact with skin  
36                      Irritating to eyes  
37                      Irritating to respiratory system  
38                      Irritating to skin  
51/53                      Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
65                      Harmful: may cause lung damage if swallowed  
66                      Repeated exposure may cause skin dryness or cracking  
67                      Vapours may cause drowsiness and dizziness

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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