

# Safety data sheet

15 OCT 2010

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006  
Date / Revised: 08.10.2010  
Product: **Luviset® P.U.R.**

Version: 2.0

(30063603/SDS\_COS\_GB/EN)

Date of print 09.10.2010

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

### Luviset® P.U.R.

Use: Polymer, cosmetic ingredient

Company:

BASF SE  
67056 Ludwigshafen  
GERMANY

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## 2. Hazards Identification

According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Label elements and precautionary statement:

Pictogram:



Signal Word:

Warning

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**Hazard Statement:**

| Flammable liquid and vapour.

**Precautionary Statements (Prevention):**

| Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Wear protective gloves and eye/face protection. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools.

**Precautionary Statements (Response):**

| IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use extinguishing powder, foam or CO2 for extinction.

**Precautionary Statements (Storage):**

| Store in a well-ventilated place. Keep cool.

**Precautionary Statements (Disposal):**

| Dispose of contents/container to hazardous or special waste collection point.

**Classification of the substance and mixture:**

| Flammable liquids: Cat. 3

**Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)**

Flammable.

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**3. Composition/Information on Ingredients****Chemical nature**

INCI Name: Polyurethane-1

Preparation based on: polyurethane, water (Content (W/W): 60 %), ethanol (Content (W/W): 10 %)

**Hazardous ingredients**

according to Directive 1999/45/EC

ethanol

Content (W/W): 10 %  
CAS Number: 64-17-5  
EC-Number: 200-578-6  
REACH registration number: 01-2119457610-43  
INDEX-Number: 603-002-00-5  
Hazard symbol(s): F  
R-phrase(s): 11

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

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#### 4. First-Aid Measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air.

**On skin contact:**

Wash thoroughly with soap and water.

**On contact with eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**On ingestion:**

Rinse mouth and then drink plenty of water.

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#### 5. Fire-Fighting Measures

**Suitable extinguishing media:**

water spray, dry powder, alcohol-resistant foam

**Special protective equipment:**

Wear a self-contained breathing apparatus.

**Further information:**

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

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#### 6. Accidental Release Measures

**Personal precautions:**

Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

**Environmental precautions:**

Do not empty into drains.

**Methods for cleaning up or taking up:**

For large amounts: Dike spillage. Pump off product.

For residues: Pick up with suitable absorbent material.

Dispose of absorbed material in accordance with regulations.

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#### 7. Handling and Storage

**Handling**

Ensure thorough ventilation of stores and work areas. Keep container tightly sealed.

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Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

#### Storage

Further information on storage conditions: Avoid all sources of ignition: heat, sparks, open flame.

Storage stability:

Storage temperature: 5 - 30 °C

Protect from temperatures below: 5 °C

Protect from temperatures above: 30 °C

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## 8. Exposure Controls/Personal Protection

### Components with workplace control parameters

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom).

### Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other  
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and Chemical Properties

Form:	liquid
Colour:	yellowish
Odour:	faint specific odour
pH value:	8.0 - 9.0

Melting point:	approx. -10 °C	
Boiling point:	approx. 100 °C (1,013 mbar)	
Flash point:	41.5 °C	(DIN 51755)
Lower explosion limit:	No data available.	
Vapour pressure:	37 mbar (20 °C) 197 mbar (50 °C)	
Density:	1.015 g/cm <sup>3</sup> (15 °C)	
Solubility in water:	miscible	
Viscosity, dynamic:	100 - 400 mPa.s (25 °C)	
Solids content:	28.0 - 32.0 %	

## 10. Stability and Reactivity

### Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

### Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological Information

### Acute toxicity

#### Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

#### Experimental/calculated data:

LD50 rat (oral): > 2,000 mg/kg (OECD Guideline 423)

### Irritation

#### Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

#### Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)



### Respiratory/Skin sensitization

Assessment of sensitization:  
Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:  
Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

### Germ cell mutagenicity

Assessment of mutagenicity:  
The substance was not mutagenic in bacteria.

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## 12. Ecological Information

### Ecotoxicity

Assessment of aquatic toxicity:  
There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:  
LC50 (96 h) > 10,000 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 84/449/EEC, C.1, static)  
The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates:  
EC50 (48 h) > 55.5 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)  
The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An eluate has been tested. No toxic effects occur within the range of solubility. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Microorganisms/Effect on activated sludge:  
EC20 (0.5 h) > 1,000 mg/l, activated sludge, domestic (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C, aerobic)

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Not readily biodegradable (by OECD criteria). The polymer component of the product is poorly eliminated.

Elimination information:  
20 - 30 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (ISO 14593) (aerobic, activated sludge, domestic)

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## 13. Disposal Considerations

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

## 14. Transport Information

### Land transport

#### ADR

Hazard class: 3  
Packing group: III  
ID number: UN 1170  
Hazard label: 3  
Proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

#### RID

Hazard class: 3  
Packing group: III  
ID number: UN 1170  
Hazard label: 3  
Proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

### Inland waterway transport

#### ADNR

Hazard class: 3  
Packing group: III  
ID number: UN 1170  
Hazard label: 3  
Proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

### Sea transport

#### IMDG

Hazard class: 3  
Packing group: III  
ID number: UN 1170  
Hazard label: 3  
Marine pollutant: NO  
Proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

### Air transport

#### IATA/ICAO

Hazard class: 3  
Packing group: III  
ID number: UN 1170  
Hazard label: 3  
Proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

### Further information

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This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 and their amendments (United Kingdom).

## 15. Regulatory Information

### Regulations of the European union (Labelling) / National legislation/Regulations

R-phrases(s)  
R10                      Flammable.

### Other regulations

This product is classified under the Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom).

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

## 16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

F                      Highly flammable.  
11                     Highly flammable.

Vertical lines in the left hand margin indicate an amendment from the previous version.

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: [product-safety-north@basf.com](mailto:product-safety-north@basf.com)

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.