

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 21.07.2005

Product: **Luviset* P.U.R.**

Version: 1.0

(30063603/SDS_COS_GB/EN)

Date of print 21.01.2009

1. Substance/preparation and company identification

Luviset* P.U.R.

Use: Polymer, cosmetic ingredient

Company:

BASF SE

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GERMANY

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Emergency information:

International emergency number:

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2. Composition/information on ingredients

Chemical nature

INCI Name: Polyurethane-1

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

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Hazardous ingredients

ethanol

Content (W/W): 10 %
CAS Number: 64-17-5
EC-Number: 200-578-6
INDEX-Number: 603-002-00-5
Hazard symbol(s): F
R-phrases: 11

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

3. Hazard identification

Flammable.

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.

5. Fire-fighting measures

Suitable extinguishing media:
water, dry extinguishing media, 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.

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.

7. Handling and storage

Handling

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

Protection against fire and explosion:

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

Protect from temperatures below: 10 °C

Protect from temperatures above: 30 °C

8. Exposure controls and 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 EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

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), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on own 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 in accordance with EN 374.

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Eye protection:
Safety glasses with side-shields (frame goggles) (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.

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)
Vapour pressure:	37 mbar (20 °C) 197 mbar (50 °C)	
Density:	1.015 g/cm ³ (15 °C)	
Solubility in water:	miscible	

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

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

Primary skin irritation/rabbit: non-irritant (OECD Guideline 404)

Primary irritations of the mucous membrane/rabbit: non-irritant (OECD Guideline 405)

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Sensitization/Buehler test/guinea pig: Non-sensitizing. (OECD Guideline 406)

Further information:

The substance was not mutagenic in bacteria.

12. Ecological information

Ecotoxicity

Toxicity to fish:

OECD 203; ISO 7346; 84/449/EEC, C.1 static

Brachydanio rerio/LC50 (96 h): > 10,000 mg/l

The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates:

OECD Guideline 202, part 1 static

Daphnia magna/EC50 (48 h): > 55.5 mg/l

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 and composition.

Microorganisms/Effect on activated sludge:

DIN/EN/ISO 8192-OECD 209-88/302/EEC,P. C aerobic

activated sludge, domestic/EC20 (0.5 h): > 1,000 mg/l

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.

Persistence and degradability

Elimination information

Test method: ISO 14593 (aerobic), activated sludge, domestic

Method of analysis: CO₂ formation relative to the theoretical value

Degree of elimination: 20 - 30 % (28 d)

Assessment: Not readily biodegradable (by OECD criteria). The polymer component of the product is poorly eliminated.

13. Disposal considerations

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

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14. Transport information

Land transport

ADR	: Class	3
	Packaging group	III
	UN-number	1993
	Designation of goods	FLAMMABLE LIQUID, N.O.S. (Contains: ETHANOL)

RID	: Class	3
	Packaging group	III
	UN-number	1993
	Designation of goods	FLAMMABLE LIQUID, N.O.S. (Contains: ETHANOL)

Inland waterway transport

ADNR	: Class	3
	Packaging group	III
	UN-number	1993
	Designation of goods	FLAMMABLE LIQUID, N.O.S. (Contains: ETHANOL)

Sea transport

IMDG/GGVSee	: Class	3
	Packaging group	III
	UN-number	1993
	Marine pollutant	NO
	Exact technical name	FLAMMABLE LIQUID, N.O.S. (contains ETHANOL)

Air transport

ICAO/IATA	: Class	3
	Packaging group	III
	UN-number	1993
	Exact technical name	FLAMMABLE LIQUID, N.O.S. (contains ETHANOL)

Further information

This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004 and their amendments (United Kingdom).

15. Regulatory information

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

R-phrase(s)

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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 2:

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, it's contents or any other product safety related questions, please write to the following e-mail address: 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.