

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 28.06.2005

Product: **Luviset* Clear**

Version: 1.1

(30212375/SDS_COS_EU/EN)

Date of print 03.02.2008

1. Substance/preparation and company identification

Luviset* Clear

Use: Polymer, cosmetic ingredient

Company:

BASF SE

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Care Chemicals

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2. Composition/information on ingredients

Chemical nature

| INCI Name: VP/Methacrylamide/Vinyl Imidazole Copolymer

Polymer based on: 1-vinyl-2-pyrrolidone, methacrylamide, 1-vinylimidazole

dissolved in: water (Content (W/W): 80 %), polymer (Content (W/W): 20 %)

3. Hazard identification

No particular hazards known.

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, carbon dioxide, foam, dry extinguishing media

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:

No special precautions necessary.

Environmental precautions:

Do not empty into drains.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material.

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations.

7. Handling and storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

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Protection against fire and explosion:
The relevant fire protection measures should be noted.

Storage

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE)
Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure controls and personal protection

Components with workplace control parameters

88-12-0: 1-vinyl-2-pyrrolidone (Content (W/W): 50 PPM)

79-39-0: methacrylamide (Content (W/W): ≤ 10 PPM)

Personal protective equipment

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.

Eye protection:

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

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	liquid
Colour:	colourless to slightly yellow
Odour:	faint specific odour
pH value:	6.0 - 7.5
Melting point:	approx. 0 °C
Boiling point:	approx. 100 °C

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Density: 1.048 g/cm³

Miscibility with water:
Solubility (qualitative) solvent(s): ethanol
miscible in all proportions
miscible in all proportions

Viscosity, dynamic: 700 - 2,000 mPa.s (ISO 2555)

10. Stability and reactivity

Thermal decomposition: ≥ 310 °C

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/female: > 2,000 mg/kg (OECD Guideline 423)

Primary skin irritation/rabbit: Slightly irritating. (OECD Guideline 404)

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

Sensitization/Mouse Local Lymph Node Assay (LLNA)/mouse: Non-sensitizing.

Further information:

The substance was not mutagenic in bacteria.

12. Ecological information

Ecotoxicity

Toxicity to fish:

OECD Guide-line 203 static

Brachydanio rerio/LC50 (96 h): > 100 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): > 100 mg/l

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

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Microorganisms/Effect on activated sludge:
OECD Guideline 209 aerobic
activated sludge/EC20 (30 min): > 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: OECD Guideline 302 B (aerobic), activated sludge, domestic
Method of analysis: DOC reduction
Degree of elimination: 10 - 20 % (28 d)

Assessment: Poorly eliminated from water.

13. Disposal considerations

Observe national and local legal requirements.

14. Transport information

| Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

15. Regulatory information

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

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other information

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

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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.