

Safety data sheet

Page: 1/11

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 13.04.2011

Version: 3.3

Product: **Luviset® Shape**

(ID no. 30284310/SDS_COS_EU/EN)

Date of print 14.04.2011

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

Product identifier

Luviset® Shape

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Polymer, cosmetic ingredient

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-48434

E-mail address: EM-Masterdata@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

According to Regulation (EC) No 1272/2008 [CLP]

| Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319 Causes serious eye irritation.
 H226 Flammable liquid and vapour.

Precautionary Statements (Prevention):

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 P280f Wear protective gloves and eye/face protection.
 P280d Wear eye/face protection.
 P243 Take precautionary measures against static discharge.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P233 Keep container tightly closed.
 P242 Use only non-sparking tools.
 P264 Wash with plenty of water and soap thoroughly after handling.
 P240 Ground/bond container and receiving equipment.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P303 + P361 + P352 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
 P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.
 P370 + P378.14 In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

Precautionary Statements (Storage):

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

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

According to Directive 67/548/EEC or 1999/45/EC

as in Annex VI of Directive 67/548/EEC

R-phrases)

R10 Flammable.

S-phrases)

S51 Use only in well-ventilated areas.

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Flammable liquids: Cat. 3

| Serious eye damage/eye irritation: Cat. 2

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:
Flammable.

Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Other Hazards (GHS):
No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/Information on Ingredients

Mixtures

Chemical nature

INCI Name: Polyacrylate 22

Preparation based on: 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate and 2-propenoic acid, ethanol, water

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

ethanol

Content (W/W): $\geq 25\%$ - $< 50\%$	Flam. Liq.: Cat. 2
CAS Number: 64-17-5	Eye dam./irr.: Cat. 2
EC-Number: 200-578-6	H319, H225
REACH registration number: 01-2119457610-43	
INDEX-Number: 603-002-00-5	

| 2-amino-2-methylpropanol

Content (W/W): $\geq 3\%$ - $< 5\%$	Skin corr./irr.: Cat. 2
CAS Number: 124-68-5	Eye dam./irr.: Cat. 2
EC-Number: 204-709-8	Eco chronic: Cat. 3
INDEX-Number: 603-070-00-6	H319, H315, H412

| propan-2-ol

Content (W/W): $\geq 1\%$ - $< 3\%$	Flam. Liq.: Cat. 2
CAS Number: 67-63-0	Eye dam./irr.: Cat. 2
EC-Number: 200-661-7	STOT single: Cat. 3 (drowsiness and dizziness)
INDEX-Number: 603-117-00-0	H319, H225, H336

Hazardous ingredients

according to Directive 1999/45/EC

ethanol

Content (W/W): $\geq 25\%$ - $< 50\%$

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-phrases: 11

| 2-amino-2-methylpropanol

Content (W/W): $\geq 3\%$ - $< 5\%$

CAS Number: 124-68-5

EC-Number: 204-709-8

INDEX-Number: 603-070-00-6

Hazard symbol(s): Xi

R-phrases: 36/38, 52/53

| propan-2-ol

Content (W/W): $\geq 1\%$ - $< 3\%$

CAS Number: 67-63-0

EC-Number: 200-661-7

INDEX-Number: 603-117-00-0

Hazard symbol(s): F, Xi

R-phrases: 11, 36, 67

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

4. First-Aid Measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

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Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, carbon dioxide, foam, dry powder

Special hazards arising from the substance or mixture

irritant gases/vapours, combustible gases/vapours

Advice for fire-fighters

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, protective equipment and emergency procedures

Ensure adequate ventilation. Information regarding personal protective measures see, chapter 8.

Environmental precautions

Do not empty into drains.

Methods and material for containment and cleaning 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.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Avoid all sources of ignition: heat, sparks, open flame.

Take precautionary measures against static discharges. Substance/product is flammable.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Avoid all sources of ignition: heat, sparks, open flame.

8. Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

64-17-5: ethanol
124-68-5: 2-amino-2-methylpropanol
67-63-0: propan-2-ol

Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. 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:

Chemical resistant protective gloves (EN 374)

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)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Avoid prolonged and/or repeated contact with the skin. Avoid inhalation of vapour. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	liquid
Colour:	clear to slightly cloudy colourless to slightly yellow
Odour:	alcohol-like
pH value:	6 - 7 (23 °C)
Melting point:	not applicable

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

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Boiling point:	82.48 °C	
Flash point:	24 °C	(DIN EN ISO 13736)
Flammability:	The product does not burn self-sustainingly.	
Ignition temperature:	Flammable.	
Vapour pressure:	not determined	
Density:	45.6 hPa (19.49 °C)	
Partitioning coefficient n-octanol/water (log Kow):	1.003 g/cm ³ (22.7 °C)	(DIN 51757)
Self ignition:	not applicable	
Thermal decomposition:	not self-igniting	
Viscosity, dynamic:	not determined	

Other information

Miscibility with water:	forms colloidal solution
Hygroscopy:	Non-hygroscopic

10. Stability and Reactivity**Reactivity**

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

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

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

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

Incompatible materials

Substances to avoid:

No substances known that should be avoided.

Hazardous decomposition products

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

11. Toxicological Information**Information on toxicological effects**

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)
Limit concentration test only (LIMIT test).

Irritation

Assessment of irritating effects:
Not irritating to the skin. Eye contact causes irritation.

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

Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)

Respiratory/Skin sensitization

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

Experimental/calculated data:
Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

Germ cell mutagenicity

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

12. Ecological Information

Toxicity

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) > 200 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 92/69/EEC, C.1, static)
The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates:
EC50 (48 h) > 88 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)
The statement of the toxic effect relates to the analytically determined concentration.

Aquatic plants:
EC50 (72 h) > 118 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)
The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms/Effect on activated sludge:

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

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EC10 (3.0 h) > 1,000 mg/l, activated sludge (OECD Guideline 209, aerobic)

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

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria). Moderately/partially biodegradable.

Elimination information:

40 - 50 % CO₂ formation relative to the theoretical value (28 d) (ISO 14593) (aerobic, activated sludge, domestic)

Bioaccumulative potential

Bioaccumulation potential:

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

No data available.

Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

Information on: ethanol

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria. Self classification

Information on: ethanol

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling vPvB (very persistent/very bioaccumulative) criteria. Self classification

13. Disposal Considerations

Waste treatment methods

Observe national and local legal requirements.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR

Hazard class: 3
Packing group: III
ID number: UN 1987
Hazard label: 3
Proper shipping name: ALCOHOLS, N.O.S. (contains ETHANOL, PROPAN-2-OL)

RID

Hazard class: 3
Packing group: III
ID number: UN 1987
Hazard label: 3
Proper shipping name: ALCOHOLS, N.O.S. (contains ETHANOL, PROPAN-2-OL)

Inland waterway transport

ADN

Hazard class: 3
Packing group: III
ID number: UN 1987
Hazard label: 3
Proper shipping name: ALCOHOLS, N.O.S. (contains ETHANOL, PROPAN-2-OL)

Sea transport

IMDG

Hazard class: 3
Packing group: III
ID number: UN 1987
Hazard label: 3
Marine pollutant: NO
Proper shipping name: ALCOHOLS, N.O.S. (contains ETHANOL, PROPAN-2-OL)

Air transport

IATA/ICAO

Hazard class: 3
Packing group: III
ID number: UN 1987
Hazard label: 3
Proper shipping name: ALCOHOLS, N.O.S. (contains ETHANOL, PROPAN-2-OL)

15. Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines. Exposure scenarios for the mixture can not be provided at the moment because exposure scenarios are not yet available for all relevant substances due to registration timelines. For advice on essential measures see sections 7 and 8 of this safety data sheet.

16. Other Information

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

F	Highly flammable.
Xi	Irritant.
11	Highly flammable.
36/38	Irritating to eyes and skin.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
36	Irritating to eyes.
67	Vapours may cause drowsiness and dizziness.
H319	Causes serious eye irritation.
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.
H336	May cause drowsiness or dizziness.

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

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.