

# Safety data sheet

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

Date / Revised: 03.03.2010

Version: 2.0

Product: **Luviquat® Mono LS**

(30054528/SDS\_COS\_GB/EN)

Date of print 06.03.2010

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

### Luviquat® Mono LS

Use: cosmetic ingredient

Company:

BASF SE

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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:

**Danger**

Hazard Statement:

**Causes serious eye damage. Causes skin irritation. Harmful if swallowed.**

Precautionary Statements (Prevention):

**Wear protective gloves/clothing and eye/face protection. Do not eat, drink or smoke when using this product. Wash with plenty of water and soap thoroughly after handling.**

Precautionary Statements (Response):

**Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (on hair): Wash with plenty of soap and water. IF SWALLOWED: Rinse mouth. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Specific treatment (see on this label).**

Precautionary Statements (Disposal):

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

Classification of the substance and mixture:

**Acute toxicity: Cat. 4 (oral)**

**Skin corrosion/irritation: Cat. 2**

**Serious eye damage/eye irritation: Cat. 1**

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

Harmful if swallowed.

Risk of serious damage to eyes.

Irritating to skin.

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### 3. Composition/Information on Ingredients

#### Chemical nature

INCI Name: Cocotrimonium Methosulfate

Preparation based on: Quaternary ammonium compounds, coco alkyltrimethyl, Me sulfates (Content (W/W): 30 %), water (Content (W/W): 70 %)

### 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

**On contact with eyes:**

Immediately 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.

**Note to physician:**

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

**Suitable extinguishing media:**

water spray, carbon dioxide, dry extinguishing media, foam

**Specific hazards:**

carbon dioxide, carbon monoxide, ammonia, nitrogen oxides, cyanides

**Special protective equipment:**

Wear self-contained breathing apparatus and chemical-protective clothing.

**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. Avoid contact with the skin, eyes and clothing.

**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**

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

**Storage**

Suitable materials for containers: glass, Stainless steel 1.4301 (V2), Stainless steel 1.4401, Glass reinforced plastic (GRP), High density polyethylene (HDPE), Low density polyethylene (LDPE)  
Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Protect from temperatures below: 6 °C

The packed product must be protected from temperatures below the indicated one.

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## 8. Exposure Controls/Personal Protection

### Components with workplace control parameters

none

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

### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Combination filter for gases/vapours of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2)

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:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

General safety and hygiene measures:

Avoid inhalation of dusts/mists/vapours. 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: colourless to slightly yellow  
Odour: faint specific odour

pH value: 6.5 - 7.5  
(100 g/l, 20 °C)

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Boiling point: 100 °C  
(1,013 hPa)

Flash point: > 100 °C

**I** *Information on: Quaternary ammonium compounds, coco alkyltrimethyl, Me sulfates*  
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Vapour pressure: 23 mbar  
(20 °C)  
123 mbar  
(50 °C)

Density: 1.015 g/cm<sup>3</sup>  
(20 °C)  
1.015 g/cm<sup>3</sup>  
(20 °C)

Solubility in water: miscible  
Solubility (qualitative) solvent(s): organic solvents  
soluble

Viscosity, dynamic: 15 mPa.s  
(23 °C)

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## 10. Stability and Reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

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.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Harmful if swallowed. Virtually nontoxic after a single skin contact.

Experimental/calculated data:  
LD50 rat (oral): > 500 - < 2,000 mg/kg (OECD Guideline 423)

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

### Irritation

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Assessment of irritating effects:

Irritating to skin. Risk of serious damage to eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Serious eyes damages/irritation rabbit: Risk of serious damage to eyes. (OECD Guideline 405)

### **Respiratory/Skin sensitization**

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization 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:

Acutely harmful for aquatic organisms. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

Toxicity to fish:

LC50 (96 h) > 21.5 - 46.4 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

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

Microorganisms/Effect on activated sludge:

EC10 (16 h) 41 mg/l, *Pseudomonas putida* (DIN 38412 Part 8, aerobic)

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

EC20 (30 min) approx. 15 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

### **Persistence and degradability**

Elimination information:

70 - 80 % BOD of the ThOD (28 d) (OECD 301D; EEC 92/69, C.4-E) (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 (GB)

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## 14. Transport Information

### Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

### Inland waterway transport

ADNR

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

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

as in Annex VI of Directive 67/548/EEC:

Hazard symbol(s)

Xn

Harmful.

R-phrase(s)

R22

Harmful if swallowed.

R41

Risk of serious damage to eyes.

R38

Irritating to skin.

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## S-phrase(s)

S39

Wear eye/face protection.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37

Wear suitable protective clothing and gloves.

S46

If swallowed, seek medical advice immediately and show this container or label.

## Self classification

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

Hazard determining component(s) for labelling: QUATERNARY AMMONIUM SALTS

**Other regulations**

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

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**16. Other Information**

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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](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.