

**Safety data sheet**

according to 91/155/EEC

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BASF Safety data sheet  
Date / revised: 26.09.1997  
Product: LUVIQUAT\* HOLD

ME 00697 (D/E)  
version 5.00

(Print date: 29.04.1998)

**1. Substance/preparation and company name****LUVIQUAT\* HOLD**

Company:  
BASF Aktiengesellschaft  
Unternehmensbereich Feinchemie  
D-67056 Ludwigshafen  
Tel.: 0621-60-0

Emergency information:  
BASF works fire brigade Ludwigshafen  
Tel.: 0621-60-43333

Fax: 0621-60-92664

**2. Composition/information on ingredients**Chemical nature

Terpolymer from: vinylcaprolactam, 1-vinyl-2-pyrrolidone and  
1-methyl-3-vinyl-imidazolium-methylsulfate  
CAS-No. 174761-16-1 EINECS-No. - ( Polymer; starting  
materials listed in: EINECS )

approx. 20% aqueous solution

INCI-name: Polyquaternium-46

**3. Possible hazards**

Critical hazards to man and the environment: none

**4. First aid measures**

General advice: Remove contaminated clothing.

On skin contact: Wash 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 (CO<sub>2</sub>), foam, dry  
extinguishing media

Special protective equipment: Not necessary.

Further information: Dispose of fire debris and contaminated  
extinguishing water in accordance with local regulations.**6. Accidental release measures**

Personal precautions: No special measures necessary.

Environmental precautions: Do not let product enter drains.

Methods for cleaning up: Large spillages should be dammed-off and  
pumped into containers; soak up remainder with absorbent material and  
dispose of in accordance with local regulations. Small spillages can  
be swilled away with water. Waste water must be disposed of  
correctly.

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## 7. Handling and storage

### Handling

Protection against fire and explosion: No special measures necessary.

### Storage

Keep tightly closed in a dry and cool place.

Containers should preferably be of: plastic ( can corrode metals )

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## 8. Exposure controls and personal protection

### Additional information on the lay-out of technical plant

( see 7 )

### Components with workplace control parameters

Product contains as residual monomer(s):

1-vinyl-2-pyrrolidone (traces)

vinylcaprolactam (traces)

### Personal protective equipment

Hand protection: protective gloves

Eye protection: safety glasses with side-shields

General safety and hygiene measures: The usual precautions for the handling of chemicals must be observed.

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## 9. Physical and chemical properties

Form: liquid

Colour: clear, colourless

Odour: odourless

Change in physical state

Boiling point/boiling range: (1013 mbar) 100 'C

Solubility in water: fully miscible

Solubility in other solvents: soluble in many organic solvents

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## 10. Stability and reactivity

Thermal decomposition: None provided product is correctly processed.

Hazardous reactions: None provided product is correctly processed.

Hazardous decomposition products: None provided product is correctly processed.

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## 11. Toxicological information

### Acute toxicity

LD50/oral/rat: >2000 mg/kg

Primary skin irritation/rabbit/OECD test: non-irritant

Primary mucous membrane irritation/rabbits' eyes/OECD test:  
non-irritant

### Sensitization

In animal experiments: No sensitizing effect.

### Other information

Ames-test: No mutagenic effect.

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## 12. Ecological information

### Elimination information

Test method: adsorption test on activated sludge (BASF test)  
Method of analysis: DOC reduction  
Degree of elimination: 50-70%  
Evaluation: moderate to eliminate

### Behaviour and environmental fate

No data available.

### Ecotoxic effects

Toxicity to fish (acute):  
Test method: OECD 203/ ISO 7346/ EEC 84/449/V, C.1  
LC50/Brachydanio rerio/: > 10 < 22 mg/l/96h  
EC/LC0( 48 h): 10.0 mg/l

### Further ecological information

The product should not be discharged into inshore water bodies without pretreatment (sewage treatment plant).

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## 13. Disposal considerations

Product: Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.

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## 14. Transport information

Not classified as hazardous under transport regulations.

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## 15. Regulatory information

### Labelling according to EEC Directives

Not subject to labelling.

### National legislation/regulations

Water hazard class: WGK 2 (Germany) (self-classification)

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## 16. Other information

A backslash in the left hand margin indicates an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

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