1. Product and Company Identification

Company: BASF CORPORATION
Address: 100 Park Avenue, Florham Park, NJ 07932, USA

24 Hour Emergency Response Information:
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

INCI Name: Polyquaternium-11

2. Hazards Identification

Emergency overview

CAUTION:
INGESTION MAY CAUSE GASTRIC DISTURBANCES.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
Ensure adequate ventilation.
Avoid contact with the skin, eyes and clothing.
Wear chemical resistant protective gloves.
Wear NIOSH-certified chemical goggles.
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

State of matter: liquid
Colour: colourless to slightly yellow
Colour: clear
Odour: faint specific odour

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
Virtually nontoxic after a single ingestion.

Irritation / corrosion:
Not irritating to the skin. Not irritating to the eyes.

Sensitization:
Skin sensitizing effects were not observed in animal studies.

Chronic toxicity:

Carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect in humans.
Repeated dose toxicity: None known

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: No data was available concerning toxicity to development.

Genotoxicity: Mutagenicity tests revealed no genotoxic potential.

Signs and symptoms of overexposure:
No significant symptoms are expected due to the non-classification of the product.

Potential environmental effects

Aquatic toxicity:
Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

3. Composition / Information on Ingredients

This product is not regarded as hazardous under current OSHA Hazard Communication standard; CFR 29 Part 1910.1200.

4. First-Aid Measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air.

Assist in breathing if necessary. Seek medical attention if necessary.

If on skin:
Wash thoroughly with soap and water.

If irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open. If adverse health effects develop seek medical attention.

If swallowed:
Rinse mouth and then drink plenty of water.

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention.

5. Fire-Fighting Measures

Flash point: (DIN 51755) Not determinable.
Autoignition: Based on the water content the product does not ignite.
Self-ignition temperature: not self-igniting
Suitable extinguishing media:
water spray, carbon dioxide, foam, dry powder

Hazards during fire-fighting:
carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides

Protective equipment for fire-fighting:
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.

Environmental precautions:
Do not discharge into drains/surface waters/groundwater.

Cleanup:
Dispose of absorbed material in accordance with regulations.
For large amounts: Dike spillage. Pump off product.
For residues: Pick up with suitable absorbent material.

7. Handling and Storage

Handling
General advice:
Handle in accordance with good industrial hygiene and safety practice.

Storage
General advice:
Keep container tightly closed and dry; store in a cool place. Keep container in a well-ventilated place.

8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:

Hand protection:
Wear chemical resistant protective gloves. Consult with glove manufacturer for testing data.

Eye protection:
Tightly fitting safety goggles (chemical goggles).

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice.
9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>faint specific odour</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless to slightly yellow clear</td>
</tr>
<tr>
<td>pH value</td>
<td>5 - 7 (25 °C)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100 °C (1,013 hPa)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>23 mbar (20 °C)</td>
</tr>
<tr>
<td></td>
<td>123 mbar (50 °C)</td>
</tr>
<tr>
<td>Density</td>
<td>1.035 g/cm³ (20 °C)</td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (log Pow):</td>
<td>not determined</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>miscible</td>
</tr>
<tr>
<td>Other Information</td>
<td>If necessary, information on other physical and chemical parameters is indicated in this section., No further information available.</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

**Conditions to avoid:**
See MSDS section 7 - Handling and storage.

**Substances to avoid:**
No substances known that should be avoided.

**Hazardous reactions:**
Reacts with strong oxidizing agents. Reacts with reducing agents.

**Decomposition products:**
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

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

**Oxidizing properties:**
not fire-propagating

11. Toxicological information

**Acute toxicity**

**Oral:**
Type of value: LD50
Species: rat
Value: 4,800 - 12,200 mg/kg
Literature data.

**Irritation / corrosion**

**Skin:**
Species: rabbit
Result: non-irritant
Literature data.

**Eye:**
Species: rabbit
Result: non-irritant
Literature data.

**Sensitization:**
Guinea pig maximization test
Species: guinea pig
Result: Non-sensitizing.
Literature data.

**Aspiration Hazard:**
No aspiration hazard expected.

**Other Information:**
The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

### 12. Ecological Information

**Fish**

Acute:
OECD Guideline 203 static
*Brachydanio rerio/LC50 (96 h): 5.7 mg/l*
The statement of the toxic effect relates to the analytically determined concentration.

**Aquatic invertebrates**

Acute:
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.

**Aquatic plants**

Toxicity to aquatic plants:
OECD Guideline 201 static
green algae/EC50 (72 h): 50.8 mg/l
The details of the toxic effect relate to the nominal concentration.

**Microorganisms**

Toxicity to microorganisms:
OECD Guideline 209 aerobic
activated sludge, domestic/EC0 (30 min): > 100 mg/l

**Degradability / Persistence**
**Biological / Abiological Degradation**

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

### 13. Disposal considerations

**Waste disposal of substance:**
Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.
14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains POLYQUATERNIUM 11)

Air transport
IATA/ICAO
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains POLYQUATERNIUM 11)

15. Regulatory Information

Federal Regulations
Registration status:
Chemical TSCA, US blocked / not listed
used for R&D purposes
Cosmetic TSCA, US released / exempt
OSHA hazard category: Not hazardous;
EPCRA 311/312 (Hazard categories): Not hazardous;

16. Other Information

NFPA Hazard codes:
Health: 1 Fire: 1 Reactivity: 0 Special:

HMIS III rating
Health: 1 Flammability: 1 Physical hazard: 0
NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.