

# SAFETY DATA SHEET

According to Regulation (EC) No. 453/2010

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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Product name: **POLYQUATERNIUM-7**

Type of product: Mixture

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

### **1.3. Details of the supplier of the safety data sheet**

Company: KALE KİMYA KİMYEVİ MADDELER A.Ş  
Turgut Özal Cad.NO:123  
Şekerpınar/ Gebze  
Kocaeli/TURKİYE

Telephone: +90 262 758 07 70

E-mail address: [info@kalekimya.com](mailto:info@kalekimya.com)

### **1.4. Emergency telephone number**

24-hour emergency number: 114

National Poison Information Service: This is a generic EU Safety Data Sheet. Consult your specific Member State version for this information.

## **SECTION 2. Hazards identification**

### **2.1. Classification of the substance or mixture**

Classification according to Directive 1999/45/EC: Not classified.

### **2.2. Label elements**

Labelling according to Directive 1999/45/EC:

Symbol(s): None.

Indication of danger: None.

Risk phrase(s): None.

Safety phrase(s): None.

### 2.3. Other hazards

PBT and vPvB assessment: Does not fulfil the criteria according to Annex XIII of REACH.

## **SECTION 3. Composition/information on ingredients**

### **3.1 Substances**

This product is not a substance.

### **3.2 Mixtures**

This product is a mixture.

#### Hazardous components

2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide

|   |                           |
|---|---------------------------|
| Concentration/ -range:                                    | <25%                      |
| EC-No.:   | Polymer                   |
| REACH Registration Number:                                | Not applicable (polymer). |
| Classification according to Regulation (EC) No.1272/2008: | Aquatic Chronic 3;H412    |

For explanation of abbreviations see section 16

## **SECTION 4. First aid measures**

### **4.1. Description of first aid measures**

#### *Inhalation:*

Move to fresh air. No hazards which require special first aid measures.

#### *Skin contact:*

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

#### *Eye contact:*

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Alternatively, rinse immediately with Diphoterine®. Get prompt medical attention.

#### *Ingestion:*

Rinse mouth with water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

### **4.2. Most important symptoms and effects, both acute and delayed**

No information available.

### **4.3. Indication of any immediate medical attention and special treatment needed.**

None under normal use.

#### *Other information:*

None.

**SECTION 5. Fire-fighting measures****5.1. Extinguishing media**

*Suitable extinguishing media:*

Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder.

*Unsuitable extinguishing media:*

None.

**5.2. Special hazards arising from the substance or mixture**

*Hazardous decomposition products:*

Carbon oxides (CO<sub>x</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen chloride. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

**5.3. Advice for fire-fighters**

*Protective measures:*

Wear self-contained breathing apparatus and protective suit.

*Other information:*

Spills produce extremely slippery surfaces.

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

*Personal precautions:*

Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

*Protective equipment:*

Wear suitable protective clothing, gloves and eye/face protection.

**6.2. Environmental precautions**

Do not contaminate water.

**6.3. Methods and material for containment and cleaning up**

*Small spills:*

Do not flush with water. Soak up with inert absorbent material.

*Large spills:*

Do not flush with water. Dam up. Clean up promptly by scoop or vacuum.

*Residues:*

Soak up with inert absorbent material.

**6.4. Reference to other sections**

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 13: Disposal considerations;

**SECTION 7. Handling and storage**

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

**7.2. Conditions for safe storage, including any incompatibilities.**

Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

**7.3. Specific end use(s)**

None.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

*National occupational exposure limits:*

None.

None.

*Derived No and Minimum Effect Levels (DNELs/DMELs)*

None.

*Predicted no-effect concentrations (PNECs)*

None.

**8.2. Exposure controls**

*Appropriate engineering controls:*

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

*Individual protection measures, such as personal protective equipment:*

a) *Eye/face protection:*

Safety glasses with side-shields.

b) *Skin protection:*

Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

i) *Hand protection:*

PVC or other plastic material gloves.

c) *Respiratory protection:*

No personal respiratory protective equipment normally required.

d) *Additional advice:*

Wash hands and face before breaks and immediately after handling the product. Wash hands before breaks and at the end of workday.

*Environmental exposure controls:*

Do not allow uncontrolled discharge of product into the environment.

**SECTION 9. Physical and chemical properties**

*Appearance:* Clear to slightly yellow li

**9.1. Information on basic physical and chemical properties**

- a) *quid.*
- b) *Odour:* None.
- c) *Odour Threshold:* Not applicable.
- d) *pH:* 3-7
- e) *Melting point/freezing point:* <0°C
- f) *Initial boiling point and boiling range:* >100°C
- g) *Flash point:* Does not flash.
- h) *Evaporation rate:* No data available.
- i) *Flammability (solid, gas):* Not applicable.
- j) *Upper/lower flammability or explosive limits:* Not expected to create explosive atmospheres.
- k) *Vapour pressure:* 2.3 kPa @ 20°C
- l) *Vapour density:* 0.804 g/litre @ 20°C
- m) *Relative density:* 1.1-1.2
- n) *Solubility(ies):* Completely miscible.
- o) *Partition coefficient:* <0
- p) *Autoignition temperature:* Does not self-ignite (based on the chemical structure).
- q) *Decomposition temperature:* >150°C
- r) *Viscosity:* See Technical Bulletin.
- s) *Explosive properties:* Not expected to be explosive based on the chemical structure.
- t) *Oxidizing properties:* Not expected to be oxidising based on the chemical structure.

**9.2. Other information**

None.

**SECTION 10. Stability and reactivity****10.1. Reactivity**

Stable under recommended storage conditions.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

Protect from frost, heat and sunlight.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

Carbon oxides (COx). Nitrogen oxides (NOx). Hydrogen chloride gas. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**Information on the product as supplied:

|                                    |  |
|------------------------------------|--|
| Acute oral toxicity:               | LD50/oral/rat >5000 mg/kg  |
| Acute dermal toxicity:             | LD50/dermal/rat >5000 mg/kg  |
| Acute inhalation toxicity:         | Testing by the inhalation route is inappropriate because exposure of humans via inhalation is unlikely: the substance has no vapour pressure and there is practically no exposure to inhalable aerosols. |
| Skin corrosion/irritation:         | Non-irritating to skin.  |
| Serious eye damage/eye irritation: | Slightly irritating.   |
| Respiratory/skin sensitisation:    | Not sensitizing to skin. No respiratory sensitization has been observed in the workplace.  |
| Mutagenicity:                      | By analogy with similar products, this product is not expected to be mutagenic.  |
| Carcinogenicity:                   | By analogy with similar substances, this substance is not expected to be carcinogenic.   |
| Reproductive toxicity:             | By analogy with similar substances, this substance is not expected to be toxic for reproduction.   |
| STOT - single exposure:            | No known effects.  |
| STOT - repeated exposure:          | No known effects.  |
| Aspiration hazard:                 | Due to the viscosity, this product does not present an aspiration hazard.  |

Relevant information on hazardous components:2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide

|                        |                              |
|------------------------|------------------------------|
| Acute oral toxicity:   | LD50/oral/rat > 5000 mg/kg   |
| Acute dermal toxicity: | LD50/dermal/rat > 2000 mg/kg |

|   |  |
|---|--|
| <i>Acute inhalation toxicity:</i>         | The product is not expected to be toxic by inhalation.   |
| <i>Skin corrosion/irritation:</i>         | The product is not expected to be irritating to skin and mucous membranes.                       |
| <i>Serious eye damage/eye irritation:</i> | By analogy with similar products, this product is not expected to be irritating.                 |
| <i>Respiratory/skin sensitisation:</i>    | The product is not expected to be sensitizing.   |
| <i>Mutagenicity:</i>                      | By analogy with similar products, this product is not expected to be mutagenic.                  |
| <i>Carcinogenicity:</i>                   | By analogy with similar substances, this substance is not expected to be carcinogenic.           |
| <i>Reproductive toxicity:</i>             | By analogy with similar substances, this substance is not expected to be toxic for reproduction. |
| <i>STOT - single exposure:</i>            | No known effects.  |
| <i>STOT - repeated exposure:</i>          | No known effects.  |
| <i>Aspiration hazard:</i>                 | No known effects.  |

## **SECTION 12. Ecological information**

### **12.1. Toxicity**

#### Information on the product as supplied:

|   |  |
|---|--|
| <i>Acute toxicity to fish:</i>            | LC50/Fish/96 hours > 100 mg/L (OECD 203)   |
| <i>Acute toxicity to invertebrates:</i>   | EC50/Daphnia magna/48 hours > 100 mg/L (OECD 202)  |
| <i>Acute toxicity to algae:</i>           | Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test. |
| <i>Chronic toxicity to fish:</i>          | No data available.   |
| <i>Chronic toxicity to invertebrates:</i> | No data available.   |
| <i>Toxicity to microorganisms:</i>        | No data available.   |
| <i>Effects on terrestrial organisms:</i>  | No data available.   |
| <i>Sediment toxicity:</i>                 | No data available.   |

#### Relevant information on the hazardous components:

##### 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide

|   |  |
|---|--|
| <i>Acute toxicity to fish:</i>          | LC50/Fish/96 hours = 10 - 100 mg/L (OECD 203)  |
| <i>Acute toxicity to invertebrates:</i> | EC50/Daphnia magna/48 hours > 50 mg/L (OECD 202)   |
| <i>Acute toxicity to algae:</i>         | Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test. |

|                                    |                               |
|------------------------------------|-------------------------------|
| Chronic toxicity to fish:          | No data available.            |
| Chronic toxicity to invertebrates: | No data available.            |
| Toxicity to microorganisms:        | No data available.            |
| Effects on terrestrial organisms:  | Exposure to soil is unlikely. |
| Sediment toxicity:                 | No data available.            |

### 12.2. Persistence and degradability

#### Information on the product as supplied:

|              |                            |
|--------------|----------------------------|
| Degradation: | Not readily biodegradable. |
| Hydrolysis:  | Does not hydrolyse.        |
| Photolysis:  | No data available.         |

#### Relevant information on the hazardous components:

##### 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide

|              |                            |
|--------------|----------------------------|
| Degradation: | Not readily biodegradable. |
| Hydrolysis:  | Does not hydrolyse.        |
| Photolysis:  | No data available.         |

### 12.3. Bioaccumulative potential

#### Information on the product as supplied:

Not bioaccumulating.

#### Relevant information on the hazardous components:

##### 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide

|                                   |                    |
|-----------------------------------|--------------------|
| Partition co-efficient (Log Pow): | 0                  |
| Bioconcentration factor (BCF):    | No data available. |

### 12.4. Mobility in soil

#### Information on the product as supplied:

Exposure to soil is not to be expected.

Koc: No data available.

#### Relevant information on the hazardous components:

##### 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide

Koc: No data available.

### 12.5. Results of PBT and vPvB assessment



Does not fulfil the criteria according to Annex XIII of REACH.

#### **12.6. Other adverse effects**

None.

### **SECTION 13. Disposal considerations**

#### **13.1. Waste treatment methods**

##### Waste from residues / unused products:

Rinse empty containers with water and use the rinse-water to prepare the working solution. Dispose of in accordance with local regulations.

##### Contaminated packaging:

If recycling is not practicable, dispose of in compliance with local regulations.

##### Recycling:

Store containers and offer for recycling of material when in accordance with the local regulations.

### **SECTION 14. Transport information**

#### **Land transport (ADR/RID)**

Not classified.

#### **Sea transport (IMDG)**

Not classified.

#### **Air transport (IATA)**

Not classified.

### **SECTION 15. Regulatory information**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

#### **15.2. Chemical safety assessment**

A Chemical Safety Assessment for this product has been carried out by the person responsible for producing this Safety Data Sheet. All relevant information used to conduct this assessment are included in this Safety Data Sheet as well any as any resulting Risk Reduction Measures.

### **SECTION 16. Other information**

This data sheet contains changes from the previous version in section(s):

SECTION 1. Identification of the substance/mixture and of the company/undertaking, SECTION 2. Hazards identification, SECTION 3. Composition/information on ingredients, SECTION 4. First aid measures, SECTION 5. Fire-fighting measures, SECTION 6. Accidental release measures, SECTION 7. Handling and storage, SECTION 8. Exposure controls/personal protection, SECTION 9. Physical and chemical properties, SECTION 10. Stability and reactivity, SECTION 11. Toxicological information, SECTION 12. Ecological information, SECTION 13. Disposal considerations, SECTION 14. Transport information, SECTION 15. Regulatory information, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet:

Abbreviations

Aquatic Chronic 3 = Hazardous to the aquatic environment Chronic Category Code 3

H-Phrases

H412 - Harmful to aquatic life with long lasting effects

This MSDS was prepared in accordance with the following:

Regulation (EU) No. 453/2010

Regulation (EC) No. 1272/2008

Regulation (EC) No. 1907/2006

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Revision Number: 13.01a

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## **ANNEX(ES)**

This product is not hazardous as supplied and does not contain:  
hazardous components which require REACH registration; or,  
demonstrate relevant effects which would require a chemical safety assessment; or, are  
present at concentrations above their cut-off value.

Therefore, according to Regulation (EC) No 1907/2006, Article 31, paragraph 7, an Exposure Scenario is not required as an annex to the Safety Data Sheet.