

**1. PRODUCT AND COMPANY IDENTIFICATION**

Issued date: 03/08/2009

**Polyquat L420KC**

**Supplier**



**Emergencies**

For chemical emergencies call CHEMTREC 1-800-424-9300

**Identification**

Trade name: Polyquat L420KC  
INCI name: Polyquaternium-4  
Chemical name: Cationic and conditioning polymer, quaternary cellulose derivative  
Graft copolymer of HEC and diallyldimethyl ammonium chloride  
EINECS No: N/A  
CAS No: 92183-41-0

**2. HAZARDS IDENTIFICATION**

**GHS Classification**

Skin sensation – Class 1

**GHS label**

**Pictogram Symbol**



**Signal Word**

**Warning**

**Hazard statements**

**H317** May cause an allergic skin reaction

**Precautionary statements**

**P261 Preservation**

Avoid breathing dust/fume/gas/mist/vapors

**P363 Response**

Wash contaminated clothing before reuse

**P501 Disposal**

Dispose of contents/container in accordance with national regulation

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Concentration(%w/w)
Polyquaternium-4	92183-41-0	93% min
Water	1132-18-5	7% max

### 4. FIRST AID MEASURES

<b>Inhalation</b>	Move to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash skin with soap and water
<b>Eye contact</b>	Rinse immediately with plenty of water for at least 15 minutes. Immediate medical attention is required
<b>Ingestion</b>	Drink 1 or 2 glasses of water. IMMEDIATELY see a physician. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsions may be necessary.

### 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Lower explosion limit</b>	Not applicable
<b>Upper explosion limit</b>	Not applicable
<b>Suitable extinguishing media</b>	Use extinguishing media suitable for surrounding fire.
<b>Specific hazards during fire fighting</b>	Combustion generates toxic fumes of the followings: Hydrogen chloride, Nitrogen oxides (NOx)
<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Further information</b>	Cool containers / tanks with spray water. Minimize exposure. Do not breathe fumes. Contain run-off.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	No danger almost exists as adding agent of detergents. Wash off in clean water.
<b>Environmental precautions</b>	Do not flush into public water course.
<b>Methods for cleaning up</b>	Collect as much as possible in a clean container for (preferable) reuse or disposal.

## 7. HANDLING AND STORAGE

<b>Storage Temperature</b>	Ambient
<b>Handling / Storage</b>	Store in a cool, dry area away from heat, sparks or fire. Mechanical handling of the powder on inadequately grounded equipment can result in static electrical discharges. All handling equipment must be properly grounded. Product contains low level of organic volatiles which could accumulate in the unvented headspace of drums or bulk storage vessels. Open drums in well ventilated area. Avoid breathing vapors. Special, local ventilation is recommended in areas where containers are opened and their contents are discharged or in any other areas where dusting conditions may develop.
<b>Sensitivity to Static Electricity</b>	Yes
<b>Sensitivity to Mechanical Impact</b>	No

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Ventilation Requirements</b>	Local
<b>Eye protection Requirements</b>	Wear safety glasses with side shields. Protect against dust and particulates.
<b>Glove Requirements</b>	The use of chemically resistant gloves is recommended.
<b>Clothing Requirements</b>	Uniforms, coveralls, or a lab coat should be worn.
<b>Change/Removal of Clothing</b>	Remove contaminated clothing and launder before reuse.
<b>Wash Requirements</b>	Wash exposed areas with soap and water.
<b>Respirator Requirements</b>	None required under normal handling conditions. Use NIOSH approved dust mask if dust levels are irritating.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical property</b>	Powder
<b>Appearance</b>	Yellow
<b>pH</b>	Not applicable
<b>pH in (2%) Solution</b>	6.0 – 8.0
<b>Solubility in water</b>	Soluble
<b>Odor</b>	Negligible
<b>Percent Volatiles</b>	7 wt% max
<b>Nitrogen content (%)</b>	1.6 – 2.40%
<b>Boling point (760mmHg)</b>	No test data available
<b>Freezing point</b>	No test data available
<b>Melting point</b>	No test data available
<b>Flesh Point</b>	No test data available
<b>Autoignition</b>	No test data available
<b>Specific gravity</b>	0.48
<b>Viscosity (2% Aq)</b>	35 – 350 cps
<b>Bulk density</b>	4 lb/gal

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable
<b>Stability Detail</b>	Stable under normal temperature and pressure. Product contains low level of organic volatiles which may be emitted or released in application processes involving the use of heat. Vent all ovens and process vessels to the outside atmosphere.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	LD50 (dermal rabbit)	No test data available
	LD50 (oral rabbit)	No test data available
<b>Irritation</b>	Skin - Non irritating	
	Eye - Mildly irritating	
<b>Route of Entry</b>	Eye contact, Skin contact, Inhalation, Ingestion	
<b>Carcinogen</b>	No	

## 12. ECOLOGICAL INFORMATION

<b>Bioaccumulative Potential</b>	Unknown
<b>Aquatic Toxicity</b>	None Established

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal methods</b>	Disposal should be in accordance with local, state or national legislation.
<b>Empty container</b>	Empty containers may contain product residue; follow MSDS and label warning even after they have been emptied.

## 14. TRANSPORT INFORMATION

<b>DOT CLASSIFICATION</b>	<b>Proper Shipping Name</b>	Not Applicable
<b>ICAO/IATA CLASSIFICATION</b>	<b>Proper Shipping Name</b>	Not Applicable
<b>IMO/IMDG CLASSIFICATION</b>	<b>Proper Shipping Name</b>	Not Applicable

The information provided herein may not include the impact of additional regulatory requirements (eg, for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

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## 15. REGULATORY INFORMATION

### USA

TSCA All components are on TSCA Inventory

SARA/TITLE III CAS NUMBER CONCENTRATION

Contains no substances at or above the reporting threshold under Section 313.

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## 16. OTHER INFORMATION

The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

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