

## MATERIAL SAFETY DATA SHEET

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Date of Issue : September 2002

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### 1. IDENTIFICATION

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#### General

Product Name : POLY ALUMINIUM CHLORIDE

Other Names : POLYALUMINIUM CHLORIDE

UN No. : N/A

Dangerous Goods Class : None Allocated

Subsidiary Risk : None Allocated

Hazchem Code : N/A

Pack Group : 0

EPG : N/A

Poisons Schedule : N/A

Uses : Poly aluminium chloride is a polyvalent inorganic polymer used as a coagulant in the treatment of potable water, industrial waste water and many other waste water situations.

#### 1.1 Physical Description / Properties

Appearance : White-light yellow or yellow, odorless, hygroscopic powder.

Formula :  $Al_n(OH)_mCl_{3n-m}$  :  $Al_2(OH)_2.7Cl_3$

Boiling Point : N/A deg C

Melting Point : N/A deg C

Vapor Pressure : N/A

Specific Gravity : 1.29 (water = 1)

Flash Point : N/A

pH : 1.8 (58% sol)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit : N/A

Upper Explosion Limit : N/A

## 1.2 Other Properties

No data available

## 1.3 Ingredients

Chemical Entity	CAS No.	Proportions (%)
POLYALUMINIUM CHLORIDE	[ 1327-41-9]	100

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## 2. HEALTH HAZARD INFORMATION

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### 2.1 Health Effects - Acute

#### Swallowed

Ingestion may cause nausea and/or vomiting.

#### Eye

May cause eye irritation.

#### Skin

May cause skin irritation with prolonged contact.

#### Inhaled

Inhalation of dust may cause mild irritation of the nose and throat.

### 2.2 Health Effects - Chronic

No data available

### 2.3 First Aid

#### Swallowed

Rinse mouth. Give water to drink. DO NOT induce vomiting. Seek medical advice.

#### Eye

Irrigate eyes thoroughly with water for at least 15 minutes. Seek medical attention if effects persist.

#### Skin

Remove contaminated clothing. Flush skin with water. If effects persist, seek medical attention.

## **Inhaled**

Remove patient from contaminated area. Consult doctor if symptoms persist.

## **First Aid Facilities**

Ensure an eye bath and safety shower are available and ready for use.

## **2.5 Advice to Doctor**

Treat symptomatically based on judgement of doctor and individual reactions of patient.

## **2.6 Toxicity Data**

Oral LD50 = not available Dermal LD50 = not available Inhalation LC50 = not available No carcinogenic, mutagenic or teratogenic effects have been reported.

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## **3. PRECAUTIONS FOR USE**

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### **3.1 Exposure Standards**

No exposure limit has been established for this product by China Chemical Safety Standard..

### **3.2 Engineering Controls**

Local exhaust is recommended for ventilation.

### **3.3 Personal Protection**

Wear PVC protective gloves and boots. Wear goggles for eye protection. Wear other industrial protective clothing to minimize contact with material. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.

### **3.4 Flammability**

Material is non-flammable and non-explosive. Severe overheating may produce hydrogen chloride gas.

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## **SAFE HANDLING INFORMATION**

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### **4.1 Storage / Transport**

Store in a dry place away from direct source of heat. Prevent severe over-heating. Ensure opened bags are resealed to prevent absorption of moisture. No special transport or storage requirements.

### **4.2 Packaging / Labeling**

UN No. N/A

Class None Allocated

Sub Risk None Allocated

Hazchem Code N/A

Pack Group 0

EPG No. N/A

Shipping Name **POLY ALUMINIUM CHLORIDE**

Hazard CORROSIVE

### **4.3 Spills and Disposal**

#### **Spills**

Clean-up personnel should wear full protective clothing including breathing apparatus in dusty conditions. Prevent drain or sewer contamination. Keep people away from spill - becomes slippery when wet.

Prevent material from entering drains or sewers by using sand or sawdust. Collect for disposal and hose residues to drains with copious amounts of water.

#### **Disposal**

Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility.

### **4.4 FIRE AND EXPLOSION HAZARD**

#### **Fire / Explosion**

Material is non-flammable. Severe overheating may produce hydrogen chloride gas. Reacts with alkaline products. Corrosive to metals. Releases acidic vapours upon decomposition. Hazardous polymerization has not been reported.

#### **Extinguishing Media**

Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use water, foam or carbon dioxide extinguishers. Use equipment/media appropriate to surrounding fire conditions.

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## **5 OTHER INFORMATION**

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### **Other Information**

No data available

### 5.1 Supplier Information

Organization	Location	TEL & FAX	Contact
Focus Specialty Chemicals Co., Ltd.	2804 China Resources Building 26 Harbour Road Wanchai Hong Kong Shanghai Liaison Office: Room 1716, 17/F., Block C., Tomson Centre, 188 Zhang Yang Road, Shanghai, China 200122.	Fax: 86-21-5054009 8  Tel: 86-21-5887218 9	Michael C. Cheung