



# UNIVAR

## Material Safety Data Sheet

LA4875  
Sternpac

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Id:** LA4875

**Product Name:** Sternpac

**Synonyms:** Polyaluminum chloride, polyhydroxosulphatoaluminum chloride.

**Chemical Family:** Polynuclear inorganic salt

**Application:** Coagulant for portable water treatment.

**Distributed By:**

Univar Canada Ltd.  
9800 Van Horne Way  
Richmond, BC  
V6X 1W5

**Prepared By:** The Safety, Health and Environment Department of Univar Canada Ltd.

**Preparation date of MSDS:** 07 April 2008

**Telephone number of preparer:** 1-866-686-4827

**24-Hour Emergency Telephone Number (CANUTEC):** (613) 996-6666

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Aluminum Chloride Hydroxide Sulphate 39290-78-3	15-40	Acute Oral LD50 :12800mg/kg

**Note:** No additional remark.

### 3. HAZARDS IDENTIFICATION

**Potential Acute Health Effects:**

**Eye Contact:** Will cause painful burning or stinging or eyes and lids, watering of eyes and inflammation of conjunctiva.

**Skin Contact:** May cause irritation, swelling or dermatitis. Prolonged contact can cause skin irritation. A single exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

**Inhalation:** Not a likely route of entry, however, may irritate respiratory tract.

**Ingestion:** May be harmful if swallowed. May cause pain, nausea, vomiting and diarrhea. May cause liver and kidney damage.

#### 4. FIRST AID MEASURES

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Notes to Physician:** Treatment based on sound judgment of physician and individual reactions of patient.

#### 5. FIRE FIGHTING MEASURES

**Flash Point:** None.

**Flash Point Method:** Pensky-Martens Closed Cup

**Autoignition Temperature:** Not Available.

**Flammable Limits in Air (%):** Not Available.

**Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Special Exposure Hazards:** Containers can build up pressure if exposed to heat (fire). Cool with water spray.

**Hazardous Decomposition/Combustion Materials (under fire conditions):** Hydrogen chloride. Aluminum oxides. Oxides of sulphur.

**Special Protective Equipment:** Fire fighters should wear full protective clothing, including self-contained breathing equipment.

**NFPA RATINGS FOR THIS PRODUCT ARE:** HEALTH 1, FLAMMABILITY 0, INSTABILITY 0

**HMIS RATINGS FOR THIS PRODUCT ARE:** HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:** Wear appropriate protective equipment.

**Environmental Precautionary Measures:** Prevent entry into sewers or streams, dike if needed. Consult local authorities.

**Procedure for Clean Up:** Isolate hazard area and restrict access. Ventilate area. Dike area to prevent spill from spreading. Neutralize with lime slurry, limestone, or soda ash. Absorb with an inert dry material and place in an appropriate waste disposal container. Flush area with water to remove trace residue.

#### 7. HANDLING AND STORAGE

**Handling:** Ensure all containers are labeled. Treat as any dilute acid. Avoid contact with metals. Avoid contact with eyes, skin and clothing. Keep the containers closed when not in use. Wear all protective equipment.

**Storage:** Store in dry rubber-lined, plastic or FRP vessels. Keep containers tightly closed. Product should be used within one (1) year. Store in original container. Do not store in metal containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls:

Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

**Respiratory Protection:** If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Use a NIOSH approved organic vapor / acid gas cartridge respirator.

### Gloves:

Impervious gloves. Neoprene gloves. Never use leather.

**Skin Protection:** Wear chemical resistant pants and jackets, preferably butyl or nitrile rubber. Rubber boots.

**Eyes:** Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Personal Protection Data:** Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Aluminum Chloride Hydroxide Sulphate	Not available.	Not available.	Not Available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid.

**Colour:** Clear amber - colourless.

**Odour:** Slight

**pH** 2.6 +/- 0.3

**Specific Gravity:** 1.27 @ 20°C

**Boiling Point:** 102 °C / 215.6 °F

**Freezing/Melting Point:** -12 °C / 10.39 °F(+/-2)

**Vapour Pressure:** 17 mmHg @ 20°C

**Vapour Density:** 1.3

**% Volatile by Volume:** Not Available.

**Evaporation Rate:** Not Available.

**Solubility:** Soluble in water.

**VOCs:** Not Available.

**Viscosity:** Not Available.

**Molecular Weight:** Not Available.

**Other:** Not Available.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** High temperatures.

**Materials to Avoid:** Carbon steel. Alkalis. Metals. Aluminum. Carbon. Brass. Nylon.

**Hazardous Decomposition Products:** Oxides of sulphur. Oxides of aluminum. Hydrogen chloride.

**Additional Information:**

No additional remark.

## 11. TOXICOLOGICAL INFORMATION

### Principle Routes of Exposure

**Ingestion:** May be harmful if swallowed. May cause pain, nausea, vomiting and diarrhea. May cause liver and kidney damage.

**Skin Contact:** May cause irritation, swelling or dermatitis. Prolonged contact can cause skin irritation. A single exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

**Inhalation:** Not a likely route of entry, however, may irritate respiratory tract.

**Eye Contact:** Will cause painful burning or stinging or eyes and lids, watering of eyes and inflammation of conjunctiva.

**Additional Information:** No additional information available.

### Acute Test of Product:

**Acute Oral LD50:** Not Available.

Acute Dermal LD50: Not Available.  
Acute Inhalation LC50: Not Available.

**Carcinogenicity:**

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Aluminum Chloride Hydroxide Sulphate	Not listed.	Not listed.

**Carcinogenicity Comment:** No additional information available.

**Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity:** Not Available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicological Information:**

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Aluminum Chloride Hydroxide Sulphate	LC50 (Leuciscus idus melanotus) 1460 - 1500 mg/L	Not Available.	Not Available.

**Other Information:**

No additional remark.

**13. DISPOSAL CONSIDERATIONS**

**Disposal of Waste Method:** Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

**14. TRANSPORT INFORMATION**

**DOT (U.S.):**

**DOT Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM CHLORIDE HYDROXIDE SULPHATE)

**DOT Hazardous Class:** 8

**DOT UN Number:** UN3264

**DOT Packing Group:** III

**DOT Reportable Quantity (lbs):** Not Available.

**Note:** No additional remark.

**Marine Pollutant:** No.

**TDG (Canada):**

**TDG Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM CHLORIDE HYDROXIDE SULPHATE)

**Hazard Class:** 8

**UN Number:** UN3264

**Packing Group:** III

**Note:** No additional remark.

**Marine Pollutant:** No.

## 15. REGULATORY INFORMATION

**U.S. TSCA Inventory Status:** All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

**Canadian DSL Inventory Status:** All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

**Note:** Not available.

### U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Aluminum Chloride Hydroxide Sulphate	Not Listed.	Not Listed.	Not Listed.

**California Proposition 65:** Not Listed.

**MA Right to Know List:** Not Listed.

**New Jersey Right-to-Know List:** Not Listed.

**Pennsylvania Right to Know List:** Not Listed.

**WHMIS Hazardous Class:**

E CORROSIVE MATERIAL



## 16. OTHER INFORMATION

### Additional Information:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### Disclaimer:

#### NOTICE TO READER:

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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Univar Sales Office.

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**\*\*\*END OF MSDS\*\*\***