

# CIR-PAC

## POLY ALUMINIUM CHLORIDE

MATERIAL SAFETY DATA SHEET	MSDS G 001 004
ISSUE NUMBER	01
DATE	MAY 2020
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### 1. PRODUCT IDENTIFICATION INFORMATION

Product Type:	Polyaluminum Chloride
Trade Name:	<b>CIR-PAC</b>
Product Use:	Water Treatment
New Zealand Supplier:	16 Queen Street, Kopu, Thames 3500 P: 07-868-9909 or info@cirtex.co.nz
Emergency Telephone:	0800 764 766 (National Poisons Centre)

### 2. HAZARDS IDENTIFICATION

This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

Environmental Protection Authority New Zealand (EPA)  
Hazardous Substances and New Organisms Amendment Act 2015 (HSNO)

#### EPA Approval No:

Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 - HSR002684

#### HSNO Classifications:

Health Hazards

6.1D Substances that are acutely toxic – Harmful

6.3A Substances that are irritating to the skin

6.4A Substances that are irritating to the eye

6.9B Substances that are harmful to human target organs or systems (Respiratory)

#### Globally Harmonised System

Pictogram: harmful substances

Signal Word: Warning



#### Hazard Statements:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H333 - May be harmful if inhaled

H335 - May cause respiratory irritation

H303+H333 - May be harmful if swallowed or if inhaled

#### Precautionary Statement:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P261 - Avoid breathing mist/vapours/spray.

P262 - Do not get in eyes, on skin, or on clothing.

P270 - Do not eat, drink or smoke when using this product.



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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL:	PROPORTION (%)	Cas No
Aluminium Chlorohydrate [Al <sub>2</sub> Cl(OH) <sub>5</sub> ]	≥ 30%	1327-41-9
Water [H <sub>2</sub> O]	≤70 %	7732-18-5

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove affected person(s) from area of exposure. Remove contaminated clothing. Rest until recovered. Seek medical attention if breathing becomes difficult or effects persist.
<b>Skin Contact:</b>	Wash exposed area with soap and water.
<b>Skin Absorption:</b>	Wash exposed area with soap and water.
<b>Eye Contact:</b>	Immediately carry out an eye wash with water for at least 15 minutes, lifting upper and lower eyelids periodically. If irritation persists, seek medical attention.
<b>Ingestion:</b>	Rinse mouth with water. If swallowed, drink lots of water. If vomiting occurs give further water and seek immediate medical assistance.

### 5. FIRE FIGHTING MEASURES

<b>Flashpoint:</b>	Not combustible
<b>Flammable Limits in Air (% by volume):</b>	Not combustible
<b>Ignition Temperature:</b>	Not combustible
<b>Extinguishing Media:</b>	Appropriate to surrounding fire conditions.
<b>Special Fire Fighting Procedures:</b>	Decomposes on heating emitting toxic fumes, including those of hydrogen chloride. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency &amp; Environmental Precautions:</b>	Ventilate area of leak or spill. Personal Protective equipment should be worn as specified in Section 8. Personal not wearing protective equipment should leave the contaminated area. If contamination to waterways or sewers has occurred advise local authorities and emergency services.
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<b>Personal Precautions:</b>	Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other dry inert material). Collect and seal in properly labeled containers or drums for disposal.
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## 7. HANDLING AND STORAGE

<b>Storage:</b>	Store in a cool, dry, well ventilated space. Ensure an emergency spill kit is available onsite. (with sufficient capacity for the quantities being stored). Keep containers closed when not in use. Regularly check for leaks.
<b>Handling:</b>	Avoid contact with eyes and skin and breathing in vapor. It is recommended that operators wear safety protective glasses, rubber acid and alkali resistant clothing and gloves. Keep away from flammable, combustible objects. Handle with care to prevent damage to packaging and containers. Ensure an emergency spill kit is available onsite with sufficient capacity for the quantities being stored). Empty containers may contain residual chemical and should be handled accordingly.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Ventilation Requirements:</b>	Not required for normal use
<b>Personal Protective Equipment:</b>	Overalls, Safety Boots, Chemical Safety Glasses & Gloves
<b>Eye Protection:</b>	Chemical Safety Glasses
<b>Skin Protection:</b>	Impervious gloves
<b>Respiratory Protection:</b>	Only required in the event of a fire
<b>Other Required Equipment:</b>	Standard work clothing and shoes

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b>	Clear Liquid
<b>Appearance:</b>	Pale Yellow or Amber
<b>Odour:</b>	Mild
<b>pH (1% Aqueous Solution):</b>	3.5 - 5
<b>Freezing Point:</b>	-10°C
<b>Solubility in Water:</b>	Easily soluble in water, alcohol, chloroform, carbon tetrachloride, slightly soluble in benzene.

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Specific Gravity:	Not determined
Vapor Density:	NA
Boiling Point:	100°C
<b>10. STABILITY AND REACTIVITY</b>	
Stability:	Stable
Conditions to Avoid:	None Known
Incompatible Materials:	Incompatible with calcium hypochlorite, alkalis, metals, cyanides
Hazardous Polymerization:	Can react with calcium hypochlorite, alkalis, metals, cyanides
Hazardous Decomposition Products:	Hydrogen Chloride
<b>11. TOXICOLOGICAL INFORMATION</b>	
Acute Toxicity	Acute oral toxicity in mice 34.5g/kg
Chronic Effects	Swallowing can result in nausea, vomiting diarrhea and gastrointestinal irritation. Causes Eye Irritation if contact is made. Causes Skin Irritation if contact is made. Inhaling vapor may cause respiratory irritation.
<b>12. ECOLOGICAL INFORMATION</b>	
Ecotoxicity	Avoid contaminating waterways.
<b>13. DISPOSAL CONSIDERATIONS</b>	
Waste Disposal Method	Disposed of in accordance with requirements of relevant local regulations. Dispose material through a licensed waste contractor. Only suitable for disposal at an approved land waste site.
Environmental Protection	Chemicals are strictly prohibited from being discharged to the environment without treatment.
<b>14. TRANSPORT INFORMATION</b>	
Road & Rail	Not classified as a Dangerous Good under NZS 5433:2012
Marine	Not classified as a Dangerous Good by the criteria of the International Maritime Dangerous Goods Code.
Air	Not classified as a Dangerous Good by the Criteria of the International Air Transport Association.

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## 15. REGULATORY INFORMATION

This product is not classified as a Dangerous Good under NZS 5433:2012 Transport of Dangerous Goods on Land.

Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2006  
Approval Number: HSR002684

## REVISION HISTORY: 23/08/2019 (V1)

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