AQUA FLOC

ChemWatch Material Safety Data Sheet
CHEMWATCH 12185
Date of Issue: Tue 1-Jan-2001

IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to Worksafe Australia criteria.
CONSIDERED A DANGEROUS SUBSTANCE ACCORDING TO DIRECTIVE 67/548/EEC, POINT 4;
AND TO 29 CFP 1910-1200 (USA).

SUPPLIER

Company	Andrew Limited
Address	3 Porana Road, Glenfield, AUCKLAND
Telephone	0800 429 628 or 09 444 0935
Emergency Telephone	0800 243 622
Fax	0800 731 770
Website	www.andrew.co.nz

CHEMWATCH HAZARD RATINGS

Flammability	0
Toxicity	2
Body Contact	0
Reactivity	0
Chronic	0

SCALE Min/Nil =0 Low =1 Moderate=2 High=3 Extreme=4

PERSONAL PROTECTION EQUIPMENT FOR INDUSTRIAL / COMMERICAL ENVIROMENTS

Short Gloves
Safety Glasses
Half Face Respirator

Product Name	Liquipac, PAC, Polyaluminium hydroxychlorosulphate
Other Names	
CAS RN No (s)	None
UN Number	None
Packing Group	None
Dangerous Goods Class	None
Subsidiary Risk	None
Hazchem Code	2R
Posions Schedule Number	None

USE

Water treatment, pulp and paper manufacture.

PHYSICAL DESCRIPTION / PROPERTIES

APPEARANCE

Pale, clear amber liquid.

Boiling Point	103^{o} approx.
Melting Point	-12^{o}C $\pm$ 1^{o}C
Vapour Pressure (kPa)	Not applicable
Specific Gravity	1.20 @ 20^{o}C
Flash Point (deg C)	Not applicable
Lower Explosive Limit (%)	Not applicable
Upper Explosive Limit (%)	Not applicable
Solubity in Water (g/L)	Miscible in all proportions

INGREDIENTS

NAME	CAS RN	%
Poly Aluminium Chloride (10% expressed as Al_2O_3)	Unknown	33.7 (w/w) Balance

HEALTH HAZARD

ACUTE HEALTH EFFECTS

SWALLOWED
Irritant. Practically non-toxic.

EYE
Irritant to eyes.

SKIN
Mild irritant.

INHALED
Irritant to mucous membranes.

CHRONIC HEALTH EFFECTS
None known.

FIRST AID

SWALLOWED
Never give anything by mouth to an unconscious person. Give water to drink. Do not induce vomiting. Seek medical assistance immediately.

EYE
Immediately irrigate with copious amounts of water for a minimum of 20-30 minutes with eyelids held open. Flush under eyelids. Seek medical assistance immediately.

SKIN
Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water for 15 minutes. Seek medical assistance if large area involved or if irritation persists.

INHALED
Remove victim to fresh air. Lie patient down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance.

ADVISE TO THE DOCTOR
Give large volumes of fluid to dilute ingested chemical, water preferably or milk. Unless highly concentrated solutions are ingested, no further measures may be necessary.

TOXICITY DATA
PAC @ 100%: Oral-rat LD50 12.79 g/kg.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS

None established for Poly Aluminium Chloride.
For Aluminium soluble salts; WES TWA: 2mg Al/m^3.

ENGINEERING CONTROLS

Keep area well ventilated. Liquipac will corrode unprotected metal surfaces. Ensure storage and dosing equipment is suitable for use with acids. Liquipac will corrode stainless steel.

PERSONAL PROTECTION

Face shield or safety glasses, PVC or rubber protective gloves, overalls and rubber boots should be worn when handling.

ENVIRONMENT
Avoid discharge into waterways.

SAFE HANDLING

STORAGE AND TRANSPORT

ROAD TRANSPORT:
Not listed in NZS 5433:1988

SEA TRANSPORT:
Not listed in IMDG code 1990

STORAGE:
Store in a tank lined with anticorrosive material (eg: rubber or plastic etc.) Use dosing pump with anti acid property. PAC will corrode stainless steel. PAC will break down slowly if stored as a dilute solution of between 5-35% (w/v) solid PAC. PAC becomes unstable (PAC polymer begins to break down) when stored at temperatures exceeding 40^{o}C.

PACKAGING AND LABELLING
Poly Aluminium Chloride
Contains 33.7% (w/w) as Solid Poly Aluminium Chloride

SPILLS AND DISPOSAL

Secure area and warn others of danger. Contain by dyking with sand or earth. Do not allow entry into drains or waterways. If the spill may enter waterways contact the regional authority. Stem to flow without risk of injury. Contain and recover the product. Dilute the residue to drains with a large amount of water.

FIRE/EXPLOSION HAZARD
PAC is a mixed acid, avoid contact with alkalis. Liquipac is corrosive to all metals, as well stainless steel. Avoid mixing product with alkalis, calcium hypochlorite, soda ash or aluminium sulphate. Diluted Liquipac will slowly decompose when stored. Furthermore, Liquipac decomposes if stored at temperatures above 40^{o}C.

Full protective clothing required including self-contained breathing apparatus. Alert Fire Brigade informing them of location, material, Hazchem code and quantity. Poly Aluminium Chloride is non-flammable. In a fire, Liquipac may decompose to HCl and SO_2. Use extinguisher substance appropriate to burning material. Contain runoff. Coll containers with water spray.

CONTACT POINT

In the event of a chemical event of a chemical incident phone **0800 243 622** for immediate assistance.

AUSTRALIAN POISONS INFORMATION CENTRE

24 HOUR SERVICE:	13 11 26
POLICE, FIRE BRIGADE OR AMBULANCE:	000

NEW ZEALAND POISONS INFORMATION CENTRE

24 HOUR SERVICE:	0800 POISON or +643 353 0199
NZ EMERGENCY SERVICES:	111

End of Report (REVIEW)

Date of preparation	Tue 1-Jan-2001
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