AQUASPHERE COAGULANTS INC.
MATERIAL SAFETY DATA SHEET

SECTION 01 – MATERIAL IDENTIFICATION

MATERIAL NAME — WHMIS Classification: D-2B

SPHEREPAC L-55 / L-65 / L-70

CHEMICAL NAME : Polyaluminum Hydroxide Chloride Solution
USE: Treatment of waste water, and industrial process water.

Address: Aquasphere Coagulants inc.
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SECTION 02 – HAZARDOUS INGREDIENTS

INGREDIENT	% CONC.	CAS#	LD50	LC50
Poly aluminum Chloride	15-40%	1327-41-9	N/AV	N/AV

SECTION 03 – HAZARD IDENTIFICATION

ROUTE OF EXPOSURE:

SKIN: Yes. ABSORPTION: No.
EYES: Yes.
INGESTION: Yes.
INHALATION: No.

EFFECTS OF ACUTE EXPOSURE:

SKIN: May cause an irritation.
EYES: May cause an irritation.
INGESTION: May cause an irritation to the mouth and digestive tracts.
INHALATION: The mist is a respiratory tract irritant.

EFFECTS OF CHRONIC EXPOSURE:

SKIN: Frequent or prolonged contact may cause dermatitis.

SECTION 04 – FIRST AID MEASURES

SKIN: Flush thoroughly with water while removing contaminated clothing.
EYES: Flush eyes immediately and thoroughly with water taking care to rinse under eyelids. If irritation persists, consult a physician.
INGESTION: Give water or milk to drink. Induce vomiting If victim is conscious. Never induce vomiting in an unconscious or convulsive person. Consult a physician.
INHALATION: In case of discomfort, remove to fresh air. If irritation persists, consult a physician.

SECTION 05 – FIRE AND EXPLOSION HAZARD

Flammability: Non combustible.
If so, under what condition:

Extinguishing media:	N/AP.	Explosive properties:	N/AP
Flash Point:	N/AP.	Oxidizing properties:	N/AP
Auto-ignition temperature:	N/AP.	NFPA fire code:	N/AP
Lower flammable limit:	N/AP		
Upper flammable limit:	N/AP		

Hazardous combustion products: N/AP

SECTION 06 – SPILL MANAGEMENT

In case of leak or spill: Contain spill if possible. Recover spill in a container if possible. Neutralize spill with an alkali such as sodium carbonate or lime. Supernatant liquid remaining after neutralization may be flushed to a sanitary sewer if allowed, or recovered with absorbent materials for disposal. See disposal considerations (Sect. 13).
WARNING: Will give an astringent taste to water supply. High concentrations may increase lead content of water if lead supply pipes are used.

SECTION 07 – STORAGE AND HANDLING

HANDLING METHODS AND PRACTICES: See Sect. 3 and 8 for precautions. Avoid accidents. Handle in containers, piping and pumps made of stainless steel, fiberglass or glass. Maintain good personal hygiene.
STORAGE REQUIREMENTS: Store in stainless steel, fiberglass or plastic containers. Store above 15°C. Do not store in containers made of aluminum, magnesium, zinc or copper alloys. Keep away from incompatible materials.

SECTION 08 – PREVENTIVE MEASURES

EYES: Where splashes may occur, wear goggles or chemical safety glasses.
SKIN: Where splashes may occur, wear impervious gloves.
RESPIRATORY PROTECTION: If high vapor concentrations wear a dust and mist respirator.

SECTION 09 – PHYSICAL CHARACTERISTICS

Physical state:	Liquid.
Appearance:	Pale amber liquid.
Specific gravity:	1.21 – 1.27 (@ 20 °C).
Boiling point:	Decomposes at 90 °C.
Freezing point:	-10 ° C
Evaporation rate:	N/D
Vapor density (air=1):	1.0
Water solubility:	Hydrolyses.
% volatility:	N/D
Partition coefficient:	N/D
pH:	2.5 +/- 0.5

SECTION 10 – REACTIVITY DATA

Chemical stability : Stable.
If not, in what conditions?
Incompatibility with other substances: Avoid contact with strong alkali, oxidizers and hydro-reactive materials.
Conditions of reactivity: Rapidly hydrolyses at 90 ° C.
Hazardous polymerization: N/AP
Hazardous decomposition: May liberate sulfur oxides and aluminum oxides when boiled to dryness or heated above 200 °C. May liberate chlorine.

SECTION 11 – TOXICOLOGICAL PROPERTIES

LD50 of material (specify species and route): N/AV
LC50 of material (specify species and route): N/AV
CARCINOGENICITY / MUTAGENICITY / TERATOGENICITY: None known.

SECTION 12 – ECOLOGICAL INFORMATION

N/AV

SECTION 13 – DISPOSAL CONSIDERATIONS

Do not pollute with careless disposal practices. Recycle if possible. Dispose of waste in a manner consistent with all Federal, State, or Local regulations in effect.

SECTION 14 – TRANSPORT INFORMATION

Not regulated for transport

SECTION 15 – REGULATORY INFORMATION

WHMIS Class: D-2B

SECTION 16 – ADDITIONAL INFORMATION

Prepared by: Environmental & Safety group
Date: August 17, 2010.
Emergency Tel: (514) 636-7779

N/AV = not available N/AP = not applicable N/D = not determined