AQUASPHERE COAGULANTS INC.
MATERIAL SAFETY DATA SHEET

SECTION 01 – MATERIAL IDENTIFICATION

MATERIAL NAME — WHMIS Classification: Class D2B.

ZEFLOC PCS POWDER

CHEMICAL NAME: Polyaluminum Hydroxy Chlorosulfate powder
USE: Treatment of potable water, waste water, and industrial process water.

Manufacturer: AQUASPHERE COAGULANTS INC.
Address: 9515 Côte-de-Liesse
Dorval, Québec
H9P 2N9, Canada
Tel: (514) 636-7779
Toll free: 1-877-426-9557
Fax: (514) 636-2371

SECTION 02 – HAZARDOUS INGREDIENTS

INGREDIENT	% CONC.	CAS #	LD50	LC50
	60-100	39290-78-3		

All Ingredients are considered non hazardous

SECTION 03 – HAZARD IDENTIFICATION

ROUTE OF EXPOSURE:

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

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: May cause respiratory tract irritation.

EFFECTS OF CHRONIC EXPOSURE:

SKIN: Frequent or prolonged contact may cause dermatitis.

SECTION 04 – FIRST AID MEASURES

SKIN: Flush thoroughly with water.
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: May release hydrogen chloride and oxides of sulfur, aluminum

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. Hydrolyses, may develop mild heat on contact with water. 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. Keep in a dry environment at room temperature. Do not store in containers made of aluminum, magnesium, zinc or copper alloys. Keep away from incompatible materials.

SECTION 08 – PREVENTIVE MEASURES

EYES: Where spillages may occur, wear goggles or chemical safety glasses.
SKIN: Where spillages may occur, wear impervious gloves.
RESPIRATORY PROTECTION: If high dust concentrations wear a dust mask and for liquid solution a respirator.

SECTION 09 – PHYSICAL CHARACTERISTICS

Physical state:	Powder.
Appearance:	White
Bulk density:	1.04
Boiling point:	N/AV
Freezing point:	N/AP
Evaporation rate:	N/D
Vapor density (air=1):	N/AP
Water solubility:	Hydrolyses
% volatility:	N/D
Partition coefficient:	N/D
pH: 30 % sol.	3.3 +/- 0.5

SECTION 10 – REACTIVITY DATA

Chemical stability: Stable. When stored in dry conditions.
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 ^{o}C.
Hazardous polymerization: N/AP
Hazardous decomposition:

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 Classification: .

SECTION 16 – ADDITIONAL INFORMATION

Prepared by: Environmental & Safety group
Date: Rev. December 23, 2010
Emergency Tel: (514) 636-7779

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

END

VER 4.