

	<b>SECTION 1 – IDENTIFICA</b>	TION OF THE MATERIA	L AND SUPPLIER
Chemical Nature:	Aluminium Sulphate		
Trade Name:	AQUATIC CLEAR DROP DAMS		
SUPPLIER:	Aquatic Technologies		
ADDRESS:	41 Yazaki Way Carrum Downs VIC 3201, Australia		
TELEPHONE	+61 3 9071 2442	FAX:	
Substance:	Crystals/Granules/Powder	Product Use:	Flocculation of Dam Water
This version	July 2024	Up for revision:	July 2029
issued:			
In case of	13 11 26 – Poisons Information Centre		
Emergency:			

SECTION 2 -	- HAZARDS IDENTIFICATION

Classification of the substance or mixture

- This product is classified as HAZARDOUS according to the criteria of SWA
- The product is classified as HAZARDOUS according to the criteria of GHS
- This product is a NON-DANGEROUS GOOD according to Australian Dangerous Goods (ADG) Code

<ul> <li>This product is a NON-DANGEROUS GOOD according to Australian Dangerous Goods (ADG) Code</li> </ul>		
GHS – GLOBALLY HA		
GHS Classification	Acute Toxicity (oral) - category 4	
	Skin Corrosion/Irritation – category 2	
	Serious eye damage/irritation – category 2A	
	Corrosive metals - category 1	
	Acute Toxicity (inhalation) - category 4	
GHS Pictogram		
GHS Signal Word	WARNING	
Hazard Statement(s)		
H302:	Harmful if swallowed	
H315:	Causes skin irritation	
H319:	Causes serious eye irritation	
H290:	May be corrosive to metals	
H332:	Harmful if inhaled	
General		
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	
Prevention		
P264+P270:	Wash hands thoroughly after use. Do not eat, drink or smoke when using this product	
P280:	Wear protective gloves/eye protection/face protection	
P234:	Keep only in original container	
P261:	Avoid breathing dust/fume/gas/mist/vapours/spray	
P271:	Use only outdoors or in a well-ventilated area	
Response		
P301+P312:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell	
P302+352:	IF ON SKIN: Was with plenty of soap and water	
P312:	Call a POISON CENTER or doctor/physician if you feel unwell	
P321:	Specific measures (see on this label)	
P332+P313:	If skin irritation occurs: Get medical advice/attention	
P362:	Take off contaminated clothing and wash before reuse	
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing	

P337+P313:	If eye irritation persists: Get medical advice/attention		
P390:	Absorb spillage to prevent material damage		
P304+P340:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing		
Storage			
P406:	Store in corrosive resistant/ container with a resistant inner liner		
Disposal	Disposal		
P501:	Dispose of contents/container in accordance with local regulations		
EMERGENCY OVERVIEW	EMERGENCY OVERVIEW		
Colour:	White		
Odour:	Odourless		
Physical Description:	Crystals/Granules/Powder		
Major Health Hazards:	Not available		

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS			
Ingredients:	CAS Number:	Proportion	Hazard Codes
Aluminium Sulphate	10043-01-3	100%	H290, H302, H315, H319, H332

### SECTION 4 – FIRST AID MEASURES

**Scheduled Poisons:** Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).

First Aid Facilities: Ensure there is access to eye washes and safety showers.

**Ingestion:** Immediately rinse mouth with water. DO NOT induce vomiting. Seek medical attention. Ingested material is not easily absorbed. It reacts with phosphate, forming an insoluble compound which is readily passed out of the body.

**Inhalation:** Remove the source of contamination or move the victim to fresh air; avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical attention.

**Skin Contact:** Remove all contaminated clothing. Wash skin gently and thoroughly with copious amounts of water. If irritation occurs, seek medical attention.

**Eye Contact:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Seek immediate medical attention.

**Ingestion:** If swallowed, rinse mouth thoroughly with water and contact a Poisons Information Centre. Urgent hospital treatment is likely to be needed. Give activated charcoal if instructed.

Advice to Doctor: Ensure label is on hand. Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.

	SECTION 5 – FIRE FIGHTING MEASURES
Fire and Explosion Hazards:	Product is non-flammable. Forms aluminium oxide and Sulphur trioxide at temperatures above 650°C. Hazardous polymerization is not expected.
Extinguishing Media:	Foam, carbon dioxide, dry chemical powder
Fire Fighting:	Fire fighters should wear a self-contained breathing apparatus and full protective clothing along with protective equipment. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Flash point:	Product is non-flammable. It will decompose under fire conditions emitting toxic gases and vapours including oxides of Sulphur.

SECTION 6 – ACCIDENTAL RELEASE MEASURES		
Emergency Procedures:	•	Carefully vacuum/sweep up spill and place in suitable containers for reuse or disposal
	•	Do not allow product to enter drains, sewers, waterways or soil. If contamination of drains has occurred, advise the local emergency services For large spills, notify local emergency services

	SECTION 7 – HANDLING AND STORAGE
Handling:	Use only in a well-ventilated area. Avoid inhalation of dusts, and skin or eye contact. Wear appropriate PPE to prevent inhalation, skin and eye contact when mixing and using. Ensure high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet. Keep containers sealed when not in use.
Storage:	Air and moisture sensitive. Store in a cool, dry, well-ventilated area out of direct sunlight and away from heat, sources of ignition, oxidising agents and acids. Do not place near structural steel. Avoid dust formation. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do not store with any foodstuffs.

The following Australian Standar Respiratory equipment: <b>AS/NZS</b>	<ul> <li>EXPOSURE CONTROLS AND PERSONAL PROTECTION</li> <li>ds will provide general advice regarding safety clothing and equipment:</li> <li>1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS</li> <li>Detection: AS1336 and AS/NZS 1337, Occupational Protective Footwear:</li> </ul>
Control Parameters	
National Exposure Standards:	Aluminium Sulphate: No specific exposure standard. Aluminium soluble salts (as Aluminium): AU OEL: 2 mg/m3
Biological Limit Values:	No data available
Appropriate Engineering Controls:	Select suitable materials for the construction of storage tanks, containers, pipe valves and fittings. Ensure adequate ventilation using a combination of natural and local or general exhaust as appropriate. Where dust is generated, particularly in enclosed areas, a local exhaust ventilation system, drawing dust away from workers' breathing zone is required. Keep containers closed when not in use in a well-ventilated area.
PERSONAL PROTECTION EQU	
Eye Protection:	Chemical splash goggles or safety glasses with side shields and a full-face shield as appropriate should be used
Skin Protection:	Protective cotton overalls, buttoned at the neck and wrists. Wear elbow-length gloves of impervious material
Protective Material Types:	PVC or rubber
Respirator:	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable particulate/dust filter should be used

# **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Physical Description and Colour:	White lustrous crystals, granules or white powder. This anhydrous	
	salt is hygroscopic (absorbs moisture from the air)	
Odour:	Odourless	
Boiling Point:	770°C (decomposes)	
Freezing / Melting Point:	Not available	
Volatiles:	Not available	
Vapour Pressure:	Not available	
Vapour Density:	Not available	
Specific Gravity:	2.71 (at 25°C)	
Water Solubility:	50% w/w	
pH:	3.7	
Coeff Oil/Water Distribution:	Not available	
Evaporation Rate:	Not available	
Odour Threshold:	Not available	
Autoignition temp:	Not available	
Additional Characteristics:	Insoluble in alcohol	

	SECTION 10 – STABILITY AND REACTIVITY
Reactivity:	Reacts with alkali
Chemical Stability:	Stable under normal conditions of storage and handling
Conditions to Avoid:	Air and moisture sensitive. Keep containers sealed
Incompatibilities:	Avoid contact with mild steel. Keep away from all foodstuffs
Hazardous	Hazardous decomposition products include oxides of sulphur
Decomposition Products:	

SECTION 11 – TOXICOLOGICAL INFORMATION		
Toxicity		
LD50:	6207 mg/kg (mouse, oral)	
LD50:	1930 mg/kg (rat, intraperitoneal)	
Neurotoxicity:	Injection of aluminium salts directly into the brain of animals caused functional and	
	structural damage	
Inhalation:	Prolonged inhalation of 2 to 4 mg/m3 of aluminium Sulphate caused scarring of	
	upper lung tissue	
Acute (short term)		
Ingestion:	May be harmful if swallowed. May cause abdominal pain, nausea and vomiting.	
	Concentrated solutions (over 20%) can cause burns of the mouth, bleeding stomach,	
	incoordination, muscle spasms and kidney damage	
Eye:	Dusts can cause irritation and inflammation to the eyes, eye contact will cause	
	tearing, stinging, blurred vision and redness. Corneal injury may occur if not washed	
	off immediately. Concentrated solutions may cause severe eye damage	
Skin:	Dust and concentrated solutions can cause irritation especially to open cuts and	
	wounds. Skin contact will cause redness and itchiness	
Inhalation:	Dust forms sulphuric acid in contact with moisture in air or in tissues; they can cause	
	sore throat, coughing and irritation of nose and throat. High dust concentrations may	
	cause congestion and constriction of airways	
Chronic (long term)		
Skin:	Repeated or prolonged exposure may cause irritation and numbing of the fingers	
Ingestion:	Repeated ingestion of this product may cause phosphate deficiency which can	
	weaken bones	

### **SECTION 12 – ECOLOGICAL INFORMATION**

No data available

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all local, state and federal regulations.

#### **SECTION 14 – TRANSPORT INFORMATION**

UN Number: None allocated UN Proper Shipping Name: Aluminium Sulphate Hazchem Code: N/A Dangerous Goods Class: None allocated Subsidiary Risk: None allocated Packaging Group: Non allocated Special Precautions for User: Irritant

SECTION 15 – REGULATORY INFORMATION Labeling Details	
	Skin Corrosion/Irritation – category 2
	Serious eye damage/irritation – category 2A
	Corrosive metals - category 1
	Acute Toxicity – inhalation category 4
Poison Schedule:	Not available
EPG:	Not available
AICS	Sulphuric acid, aluminium salt (3:2)

Date of Last Revision	
AT199v1.1 - 15/12/18	
Acronyms	
ADG CODE	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)
AIC S	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSIS	Hazardous Substances Information System
IARC	International Agency for Research on Cancer
NICNAS	The National Industrial Chemicals Notification and Assessment Scheme
NOHSC	National Occupation Health and Safety Commission
NTP	National Toxicology Program (USA)
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number
PRODUCT IN THE WORKPLACE. EACH US	VLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE SER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.
THE USER SHOULD CONTACT THIS COM	IATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, PANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS OUR RESPONSIBILITY FOR PRODUCTS ERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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END OF SDS