



SAFETY DATA SHEET

Product:	HY-CLOR FLOCCULENT	Date Prepared: 10 OCTOBER 2017
Company:	Hy-Clor Australia Pty Ltd	Replaces: 20 AUGUST 2016


Page 1 of 7

1 Identity for the Chemical

Product Name:	HY-CLOR FLOCCULENT
Other Names:	HYCFLOCCSP02
Uses:	Flocculent for swimming pool water and waste treatment
Supplier Name:	HY-CLOR AUSTRALIA PTY LTD
Address:	178 Power Street, Glendenning, NSW 2761 74 Westney Road, Mangere, Auckland NZ 2022
Telephone:	Australia: (02) 8805 2400. After Hours 0404 859 515 General Information Only New Zealand: (09) 973 2477

2 Hazards Identification

The hazard information contained in this SDS is for people handling the product and its ingredients in the manufacturing environment.

Hazard Class and Category: Eye Irritation – Category 2A (HSNO class: 6.4A) Skin Irritation – Category 2 (HSNO class: 6.1B) This product is classified as hazardous according to the criteria of Safe Work Australia and the Environmental Protection Authority New Zealand.
Signal Word: Warning 
Hazard Statements: H315: Causes skin irritation H320: Causes eye irritation H355: May cause respiratory irritation
Precautionary Statements: Prevention P102: Keep out of reach of children. P232: Protect from moisture. P261: Avoid breathing dusts. P262: Do not get in eyes, on skin, or on clothing. P264: Wash hands thoroughly after using.



SAFETY DATA SHEET

Product:	HY-CLOR FLOCCULENT	Date Prepared: 10 OCTOBER 2017
Company:	Hy-Clor Australia Pty Ltd	Replaces: 20 AUGUST 2016

Page 2 of 7

Response

P335: Brush off loose particles from skin.

P337: If eye irritation persists, seek medical advice.

P352: Wash with plenty of soap and water.

P301+P330+P331: IF SWALLOWED, Rinse mouth, Do NOT induce vomiting.

P301+P330+P331: IF IN EYES, Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: Not combustible. Use extinguishing media suited to burning material.

Storage

P402+P404: Store in a dry place. Store in a closed container.

Disposal

P501: Dispose of contents to an approved waste disposal and container to landfill.

3 Composition / Information on Ingredients

<u>Identity (Other Names)</u>	<u>CAS Number</u>	<u>Proportion (w/w)</u>
Aluminium Sulphate	10043-01-3	100%

4 First Aid Measures

First Aid		
-	Swallowed:	DO NOT INDUCE VOMITING. Wash out mouth with water and give plenty of water to drink. Seek medical attention.
-	In Eye:	If contact with the eye(s) occurs, wash with copious amounts of water for 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.
-	On Skin:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical advice.
-	Inhaled:	If inhaled, remove from contaminated area to fresh air. If symptoms develop seek medical attention.
Advice to Doctor		Treat symptomatically.



SAFETY DATA SHEET

Product:	HY-CLOR FLOCCULENT	Date Prepared: 10 OCTOBER 2017
Company:	Hy-Clor Australia Pty Ltd	Replaces: 20 AUGUST 2016

Page 3 of 7

**If poisoning occurs, contact a doctor or Poisons Information Centre.
Australia: 13 11 26 New Zealand: 0800 746 766**

5 Fire Fighting Measures

Flammability	Not flammable.
Extinguishing Media:	In case of fire, use carbon dioxide, dry chemical, foam or water fog.
Hazardous Combustion Products:	None combustible material.
Precautions for Fire Fighters:	In confined areas or areas of excessive smoke, fire fighter must wear full protection and self-contained breathing apparatus.
Hazchem Code:	None

6 Accidental Release Measures

Emergency Procedures:

This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern.

Containment of Spill:

For minor spills, wear sufficient protection to minimize skin and eye exposure. Sweep up material avoiding dust and then transfer material to a sealed container and place in garbage. Wash surfaces well with soap and water. If large quantities of the material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7 Handling and Storage

Precautions for Safe Handling:

Avoid generating dust. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product.

Conditions for Safe Storage:

Store in a cool, dry well-ventilated area, out of direct sunlight and moisture. Store in labelled, corrosion-resistant containers. Keep containers tightly closed. Store away from water and incompatible materials.



SAFETY DATA SHEET

Product:	HY-CLOR FLOCCULENT	Date Prepared: 10 OCTOBER 2017
Company:	Hy-Clor Australia Pty Ltd	Replaces: 20 AUGUST 2016

Page 4 of 7

8 Exposure Controls / Personal Protection

Exposure Standards:

Exposure limits have not been established by Safe Work Australia for this product.

Engineering Controls:

No special equipment is usually necessary when occasionally handling small quantities. The following instructions are for bulk handling.

Personal Protective Equipment:**Respiratory Protection:**

If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants.

Eye and Face Protection:

Safety glasses with side shields, goggles or full faced shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken.

Skin and Body Protection:

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.

9 Physical and Chemical Properties

Appearance:	White lustrous crystals, granules or powder
Odour	Odourless
pH:	3.7
Viscosity	Not Applicable
Solubility in water	50%
Specific Gravity/Density	Not available
Boiling Point/Range	Not Available
Freezing/Melting Point	Not Available

10 Stability and Reactivity

Chemical Stability:

This product is stable and unlikely to react or decompose under normal circumstances.



SAFETY DATA SHEET

Product:	HY-CLOR FLOCCULENT	Date Prepared: 10 OCTOBER 2017
Company:	Hy-Clor Australia Pty Ltd	Replaces: 20 AUGUST 2016

Page 5 of 7

Conditions to Avoid:

Keep containers tightly closed, containers should be kept dry. Keep containers and surrounding areas well ventilated. Protect from direct sunlight.

Hazardous Decomposition Products:

Forms aluminium oxide and Sulphur trioxide at temperatures above 650°C

Incompatible Material:

Oxidisers

Polymerisation:

Will not occur.

11 Toxicological Information

Acute Toxicity:**Oral:**

Oral LD50 (rat)=1930mg/kg

Ingestion of the product may irritate the gastric tract causing nausea and vomiting. Symptoms may include headache, nausea, vomiting and abdominal pains.

Inhalation:

May cause sore throat, coughing and irritation of the nose and throat.

Skin Corrosion/Irritation:

Dust and concentrated solutions can cause irritation, especially of open cuts. Symptoms may include itchiness and reddening of contacted skin.

Eye Damage/Irritation:

This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering.

Sensitisation:

Not expected to be a sensitiser.

Carcinogenicity:

Not considered to be a carcinogenic hazard.

Target Organ Toxicity:

Not expected to cause toxicity to a specific organ.

12 Ecological Information

Ecotoxicity:

This product is unlikely to adversely affect the environment.

Persistence and Degradability:

Not available.



SAFETY DATA SHEET

Product:	HY-COLOR FLOCCULENT	Date Prepared: 10 OCTOBER 2017
Company:	Hy-Clor Australia Pty Ltd	Replaces: 20 AUGUST 2016

Page 6 of 7

13 Disposal Considerations

Disposal Methods:

Dispose of small quantities and empty containers by wrapping with paper in garbage. This product is not a hazardous waste and it can, along with its containers, be disposed to landfill in accordance with local regulations.

14 Transport Information

ROAD AND RAIL	
UN Number:	None
Proper Shipping Name:	Aluminium Sulphate
Class (Subsidiary Risk):	None
Packing Group:	None
Special Precautions for User:	None
Hazchem Code:	None
Marine Transport: (IMO/IMDG)	
UN Number:	None
Proper Shipping Name:	Aluminium Sulphate
Class (Subsidiary Risk):	None
Packing Group:	None
Special Precautions for User:	None
Hazchem Code:	None

15 Regulatory Information

Poison Scheduling:	
Registration/Notification:	None

16 Other Information

Date Prepared:	10 OCTOBER 2017
Replaces:	20 AUGUST 2016

Glossary

ACGIH - American Conference of Governmental and Industrial Hygienists.

ASCC - Australian Safety and Compensation Commission.

BCF - Bioconcentration Factor - ability to accumulate a chemical in an organism to levels greater than in the surrounding medium. Calculated by dividing the concentration of a chemical in an organism by the concentration in the surrounding medium.



SAFETY DATA SHEET

Product:	HY-CLOR FLOCCULENT	Date Prepared: 10 OCTOBER 2017
Company:	Hy-Clor Australia Pty Ltd	Replaces: 20 AUGUST 2016
		Page 7 of 7

EC₅₀ - median effective concentration. The concentration of a substance that courses a specified response/effect in an organism or population.

Explosive Limits - The range of concentrations (% by volume in air) of a flammable gas or vapour that can result in an explosion in a confined space.

K_{oc} - the organic carbon partition coefficient (mL soil water /g organic carbon).

LC₅₀ - Lethal Concentration 50%. The concentration of a substance that kills 50% of a target population.

LD₅₀ - Lethal Dose-50%. The dose of a substance that kills 50% of a target population.

NOAEL - The highest dose or concentration of a substance used in a test/study that does not produce any observable adverse effects in the target organism.

NOEL - The highest dose call concentration of a substance used in a test/study that does not produce any observable effects in the target organism.

pH - Measure of how acidic or alkaline a material is using a 1 - 14 scale. pH 1 is strongly acidic and pH 14 strongly alkaline.

Polymerisation - a chemical reaction in which molecules (monomers) combine to form larger molecules (polymers). A hazardous polymerisation reaction is one that occurs at a fast rate and releases large amounts of energy.

P_{ow} - The octanol-water partition coefficient. The ratio of the concentration of octanol and in water at equilibrium and at a specified temperature used in environmental studies to indicate fate of chemicals and the environment.

STEL - Short-Term Exposure Limit. The maximum concentration of a substance that workers can be exposed to for periods up to 15 minutes without adverse effects e.g. irritation, tissue damage, narcosis (drowsiness or unconsciousness).

SWA - Safe Work Australia.

TWA - Time Weighted Average. The time weighted average concentration of a substance that most workers may be repeatedly exposed to over a 8-hour or 40-hour week without adverse effect.

References

Prepared using data supplied by manufacturer and public databases.

Hazard classification conducted according to the Safe Work Australia Guidance on the Classification of Hazardous Chemicals under the WHS Regulations.

Contact: Any advice, recommendation, information, assistance, or service provided by Hy-Clor Australia in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, this information is given without warranty or representation. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products.

Mr Mark Sheridan

Technical Regulations Manager

Telephone: Australia + 61 2 8805 2400

New Zealand + 64 9 973 2477