



CCM CHEMICALS SDN BHD
PASIR GUDANG WORKS

SAFETY DATA SHEET

1. IDENTIFICATION OF THE HAZARDOUS CHEMICALS AND OF THE SUPPLIER

PRODUCT NAME : PROFLOC A18

Recommended use of the chemical and restrictions on use Used as a coagulant in treatment of potable industrial and sewage waste water.

Details of supplier CCM Chemicals Sdn Bhd
Pasir Gudang Works
PLO 411, Kawasan 4
Jalan Perak Satu
Kawasan Perindustrian Pasir Gudang
81700 Pasir Gudang
Johor

Phone No. 07-2510562 / 2671333
Fax No. 07-2510560
Emergency Phone No. IN AN EMERGENCY DIAL 999
For specialist advice in an emergency, telephone 1-800-88-8565

2. HAZARD IDENTIFICATION

Physical Hazard Classes

Corrosive to metal : Category 1

Health Hazard Classes

Skin corrosion / Irritation : Category 1

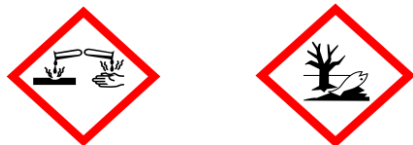
Serious Eye Damage : Category 1

Environmental Hazards

Hazardous to aquatic environment-acute hazard Acute Toxicity : Category 1

Label Elements

Pictogram and Symbol



Signal word : **Warning**

Hazard Statement

H290 May be corrosive to metals

H314 Causes severe skin burns & eye damage

H318 Causes serious eye damage

H400 Very toxic to aquatic life

Precautionary Statement(s):**Prevention:**

P102 : Keep out of reach of children.

P103 : Read label before use.

P264 : Wash hands thoroughly after handling.

P273 : Avoid release to the environment

P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P390 : Absorb spillage to prevent material

P391 : Collect spillage

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

P303+P361+P353: IF ON SKIN (or hair) : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 : Wash contaminated clothing before reuse.

P304+P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 : Immediately call a POISON CENTER or doctor/physician.

P321 : Specific treatment (see First Aid Measures on the SafetyData Sheet).

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

No storage statements.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

HAZARDOUS INGREDIENTS (S)	CAS No.:	% (w/w)	H Codes
Polyaluminium hydroxide chloride	1327-41-9	~ 16	H290, H314, H318, H400
Water	7732-18-5	~ 84	-

4. FIRST AID MEASURES**4.1 DESCRIPTIONS OF FIRST AID MEASURES**

Inhalation : Remove victim from exposure. Remove contaminated clothing. Keep victim rest until fully recovered. Seek medical attention if cough or other respiratory symptoms develop.

Skin Contact : Immediately remove any contaminated clothing and wash affected area thoroughly with running water for min 15 minutes. Seek medical attention if swelling, redness, blistering or irritation occurs.

Eye Contact : **SPEED IS ESSENTIAL.** If in eyes, hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. If irritation persist, continue flushing until advised to stop by doctor.

Ingestion : Rinse mouth with plenty of water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.

4.2 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Not combustible, use media appropriate for surrounding material . If material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

5.2 Specific hazards arising from the chemical

Thermal decomposition (>200 °C) may liberate HCl-fumes or SO_x -fumes.

5.3 Special protective equipment and precautions for fire fighters

Fire Fighting Procedures and Protective Equipment:

Decomposes on heating emitting toxic fumes, including those of aluminium oxide , and hydrogen chloride . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment to prevent contact with skin and eyes and breathing in mist. Work up wind or increase ventilation.

6.2 Environmental precautions

Clear area of all unprotected personnel from the area. Do not let product enters drains.

6.3 Methods and materials for containment and cleaning up:

Wear appropriate protective equipment to prevent skin and eye contact. Work up wind or increase ventilation. Flush with plenty of water, if possible neutralize with lime or inert material, sand or soil.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid skin and eye contact and breathing in mist. Keep away from any incompatible material. Use appropriate Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities

Containers should be of rubber lined material. Store away from incompatible materials. Handle in accordance with good industrial hygiene and safety practice.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits

No value assigned for this specific material.

TLV (US)1 : 2 mg Al/m³

These TLV is guidance to be used to control the occupational health hazards. All atmospheric contamination should be kept at lower level as practicable.

Engineering Controls:

When handling, the working area and methods should be designed to prevent direct contact with the product and inhibit dust and/or splash.

PERSONAL PROTECTIVE EQUIPMENT

Eye and face:

Wear chemical goggles and full face shield. Eye wash fountain or eye wash solutions and safety shower facilities should be located near to work area.

Skin Protection:

Wear appropriate impervious protective clothing, including boots, gloves, lab coat, apron or full body suit to prevent skin contact.

Respiratory Protection:

Wear respiratory mask if needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Yellowish, clear liquids
Odour	: Insignificant
pH	: Approx. 2.5, in concentrated solution
Melting point/Freezing Point (Deg C)	: 200
Boiling Point	: 100 – 120°C
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 1.190 – 1.250
Solubility (ies)	: Complete at 20°C
Partition coefficient:n-octanol/water	: No data available
Auto:ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available

10. STABILITY AND REACTIVITY

Reactivity

Decomposition may liberates HCL fumes or SOX fumes.

Chemical Stability

Material is stable under normal conditions.

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Material is stable under normal conditions.

Conditions to avoid

Avoid contact with chlorite, hypochlorite, sulfite, mineral acids, excessive heat and bases/alkalis.

Incompatible Materials

Carbon steel, aluminum, carbon, brasses, and nylon.

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Thermal decomposition (>200 °C), may liberate HCl fumes or SOX fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

No information is available

Skin corrosion/irritation:

Causes skin irritation

Serious eye damage or irritation:

Causes eyes irritation.

Respiratory or skin sensitisation:

No information is available

Germ cell mutagenicity:

No information is available

Carcinogenicity:

No information is available

Reproductive toxicity:

No information is available

Specific Target Organ Toxicity (STOT)-single exposure:

No information is available

STOT-repeated exposure:

No information is available

Aspiration hazard:

No information is available

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Contact with this material will cause irritation to the skin, eyes and mucous membranes.

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure

Immediate effects

Irritation to the eyes, skin and mucous membrane. Acute inhalation may cause nausea, vomiting, diarrhea, and abdominal pain.

Delayed effects

Data is not available

Chronic effects

Data is not available

12. ECOLOGICAL INFORMATION

The product hydrolyse and form a precipitate of metal hydroxide. When diluted beyond a particular level. The solubility of the Aluminium depends on the pH value.

13. DISPOSAL CONSIDERATIONS

Waste from product residues : Dilute with water, neutralize with lime.
Suitable dumping site in accordance to local regulations

Waste from contaminated packing : Destruction in accordance to local regulations

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

14. TRANSPORT INFORMATION

ROAD/RAIL

UN No. : 2581
Proper shipping name : Polyaluminium Chloride
ADR/RID Class : 8
Packing group : III

SEA (IMDG)

UN No. : 2581
Proper shipping name : Polyaluminium Chloride IMDG Class
- primary : 8
UN Packing Group Sea : III
Packing group : III
Marine pollutant : Yes

AIR (IATA)

UN No. : 2581
Proper shipping name : Polyaluminium Chloride
ICAO/IATA Class : 8
- primary : 8
UN Packing Group Air : III

15. REGULATORY INFORMATION

Malaysia Regulations:-

1. OSHA (CLASS Regulation) 2013.
 2. OSHA (Use and Standard Exposure of Chemicals Hazardous to Health) Regulations 2000.
 3. Environmental Quality Act 1974 and regulations
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16. OTHER INFORMATION

Information furnishes in this data sheet is accurate to the best of our knowledge, information at the time of printing. Information serve as guidance for the safe handling, usage, processing, storage, transportation, disposal and discharge and should not be assumed as guarantee or quality specification. Information are relevant to the mentioned substance and is not accurate if this substance is mix with other substances or into process unless stated above.

SDS Recent Revision Date : 4th August 2017

SDS Recent Revision : 6

This data sheet was prepared in accordance with OSH (CLASS) Regulations 2013

Chemical Emergency Telephone Number : 1-800-88-8565

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