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MATERIAL SAFETY DATA SHEET

- Product name: POLY ALUMINIUM CHLORIDE**
CAS NO.: 12042-91-0
Chemical Formula:
HS Code:
Weight (%): 80~100
- Hazards Identification**
Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Potential Chronic Health Effects Not available.
- First Aid Measures**
Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
Skin Contact In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get Medical attention.
Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation Not available.
Ingestion Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
Serious Ingestion Loosen tight clothing such as a collar, tie, belt or waistband.
Not available.
- Fire and Explosion Data**
Flammability of the Product May be combustible at high temperature
Suitable Extinguishing Media Water spray, foam, carbon dioxide or dry chemical.
Explosion Hazards in Presence of Various Substances Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
Protective Equipment Wear self-contained respirator.
Wear fully protective impervious suit.
- Accidental Release Measures**

Person-Related Safety Precautions Measures For Environmental Protection	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Do not allow material to be released to the environment without proper governmental permits
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to be evacuated through the sanitary system.

6 Handling and Storage

Precautions	Keep container tightly sealed. Store in cool, dry place in tightly close containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: The product is not flammable. Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility:
Storage	Store away from oxidizing agents. Store away form water/ moisture. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers

7 Exposure Controls/ Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

8 Physical and Chemical Properties

Physical state and appearance	Powder	Odour	Odorless.
pH (1% solution/ water)	Not available	Color	White to yellow.
Boiling Point	Not available	Odour Threshold	Not available.
Melting Point	Decomposes	Water/ Oil Dist. Coeff.	Not available.
Specific Gravity	Not available	Volatility	Not available.
Vapour Pressure	Not available	Dispersion Properties	See solubility in water.
Vapour Density	Not available	Solubility	Soluble in cold water.

9 Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Not available.
Corrosivity	Non-corrosive in presence of glass.

	Special Remarks on Reactivity	Not available.
	Special Remarks on Corrosivity	Not available.
	Polymerisation	Will not occur.
10	Toxicological Information	
	Routes of Entry	Eye contact. Inhalation. Ingestion.
	Toxicity to Animals	LD50: Not available. LC50: Not available.
	Chronic Effects on Humans	Not available.
	Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
	Special Remarks on Toxicity to Animals	Not available.
	Special Remarks on Chronic	Not available.
	Special Remarks on other Toxic Effects on	Not available.
11	Ecological Information	
	Ecotoxicity	Not available.
	BOD5 and COD	Not available.
	Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
	Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
	Special Remarks on the Products of Biodegradation	Not available.
12	Disposal Considerations	
	Waste from Residues/ Unused Products	Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.
	Contaminated Packaging	Do not re-use empty containers.
	Methods for cleaning up	Soak up with inner absorbent material.
13	Transport Information	
	DOT Classification	Proper Shipping Name: Not regulated as a hazardous material. Hazard Class: Not available. Packing Group: Not available. UN Number: Not available.
	IMDG/IMO	IMDG – Hazard Classifications: Not regulated as a hazardous material. Hazard Class: Not available. Packing Group: Not available. UN Number: Not available.
14	Other Regulatory Information and Pictograms	
	Federal and State	Aluminium Chlorohydrate
	Safety Phrases	7/8 Keep container tightly closed and dry. 28 After contact with skin, wash immediately with plenty of water. 45 In case of accident or if you feel unwell, seek medical advice immediately.

National Regulations	All components of this product are listed in the U. S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. All components of this product are listed on the Canadian Domestic Substances List.
Information About Limitation Of Use	For use only by technically qualified individuals.
15 Other Information	
Prepared by	Environment Health & Safety Department
References	Not available.
Other Special Considerations	Not available.

Notice to Reader :

*All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other material, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. If shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable **VM CHEMICAL INDUSTRY CO.,LTD.** assumes no responsibility for the completeness or accuracy of the information contained herein.*