



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: WB-25

Recommended use of the chemical and restrictions on use: Used for water treatment.

Manufacturer: Diversified Waterscapes Inc
27324 Camino Capistrano #213
Laguna Niguel, CA 92677

Telephone: 949-582-5414

Emergency Phone: CHEMTREC: (800) 424- 9300

SDS Date of Preparation: 8/8/13

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical	Health	Environment
Not Hazardous	Not Hazardous	Not Hazardous

GHS Label Elements:

None required

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Water	7732-18-5	50%
Aluminum Chlorohydrate	12042-91-0	50%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation occurs and persists.

Skin: Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.

Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Get medical attention if symptoms develop or if you feel unwell.

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Most important Symptoms: May cause eye and skin irritation. Inhalation of mists may cause mild mucous membrane and respiratory irritation.

Indication of immediate medical attention/special treatment: Immediate medical attention is not required.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

Specific hazards arising from the chemical: May cause surfaces to be extremely slippery and cause a slip hazard. Thermal decomposition may yield oxides of carbon and chlorine compounds including hydrogen chloride.

Special Protective Equipment and Precautions for Fire-Fighting Instructions: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8. May cause surfaces to be extremely slippery and cause a slip hazard.

Methods and Materials for Containment and Cleaning Up: Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Do not reuse containers. Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Aluminum Chlorohydrate (as Aluminum, metal and insoluble compounds)	1 mg/m ³ TWA ACGIH TLV (Respirable) 5 mg/m ³ (Respirable fraction), 15 mg/m ³ (Total dust) TWA OSHA PEL
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Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin Protection: Wear impervious gloves such as rubber or neoprene to avoid prolonged skin contact.

Eye Protection: Wear safety goggles or glasses where splashing is possible.

Other: Impervious coveralls, apron and boots as needed to prevent contact. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Clear, colorless to yellow liquid with no odor.

Physical State: Liquid	Odor Threshold: Not established
Vapor Density: Same as water	Initial Boiling Point/Range: 212°F (100°C)
Solubility In Water: Soluble	Vapor Pressure: Same as water
Relative Density: 1.338	Evaporation Rate: Same as water
Melting/Freezing Point: 22°F (-5.55°C)	pH: 4.3
VOC Content: 0%	Octanol/Water Coefficient: Not determined
Solubility: Not determined	Decomposition Temperature: Not determined
Viscosity: Not determined	Flammability (solid, gas): Not applicable
Flashpoint: None	Autoignition Temperature: None
Flammable Limits: LEL: Not applicable	UEL: Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Reacts with metals to form flammable hydrogen gas.

Conditions to Avoid: None known.

Incompatible Materials: Avoid metals (zinc and aluminum) and alkalies.

Hazardous Decomposition Products: When heated to decomposition emits toxic oxides of carbon and chlorine compounds including hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Ingestion: Ingestion may cause irritation of the mucous membranes, esophagus and stomach. May cause nausea, vomiting and diarrhea. Large amounts may cause liver and kidney effects.

Inhalation: Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.

Eye: May cause irritation with pain and tearing.

Skin: May cause irritation on prolonged or repeated contact.

Chronic: Studies with laboratory animals has shown that prolonged inhalation of aluminum chlorohydrate causes fibrosis of the lungs.

Sensitization: This material is not known to cause sensitization.

Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Germ Cell Mutagenicity: No data available

Reproductive Toxicity: No data available

Numerical Measures of

Toxicity: No toxicity data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aluminum Chlorohydrate: 96 hr LC50 Zebrafish – 100-500 mg/L
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Not Regulated
UN Number: None
Hazard Class/Packing Group: None
Labels Required: None

15. REGULATORY INFORMATION

CERCLA: This product is not subject to CERCLA reporting requirements. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA Hazard Category (311/312): Not Hazardous

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

CANADA:

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

Canadian CEPA: All the components of this product are listed on the Canadian DSL.

Canadian WHMIS Classification: Not a controlled product.

16. OTHER INFORMATION

NFPA Rating: Health = 0	Flammability = 0	Instability = 0
HMIS Rating: Health = 1	Flammability = 0	Physical Hazard = 0

SDS Revision History:

9/26/07: New SDS

8/8/13: Updated format. Updated all sections.

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Diversified Waterscapes Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.