

HAVILAND PRODUCTS COMPANY
SAFETY DATA SHEET



Haviland
PRODUCTS COMPANY

Section 1: Identification

Product Name: Havatreat 246 Product Code: H007526

Haviland Products Company
421 Ann Street NW
Grand Rapids, MI 49504
(616) 361-6691

Emergency Phone:

CHEMTREC: Canada and USA - (800) 424-9300
CHEMTREC: In Mexico - 01-800-681-9531

Product Use: Wastewater Treatment

Not recommended for: NA

Section 2: Hazard(s) Identification

GHS Ratings:

Corrosive to metals	1	Corrosive to metals
Skin corrosion/irritation	1C	Destruction of dermal tissue: Exposure < 4 hours Observation < 14 days, visible necrosis in at least one animal
Serious eye damage/eye irritation	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

GHS Hazards

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Cause serious eye damage

GHS Precautions

P234	Keep only in original container
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see first aid treatment on SDS)
P363	Wash contaminated clothing before reuse
P390	Absorb spillage to prevent material damage
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.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405	Store locked up
P406	Store in a corrosive resistant container with a resistant inner liner
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

Danger



Section 3: Composition/Information on Ingredients

*The specific chemical name and/or concentration of the composition has been withheld as trade secret.

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Water 7732-18-5 50% - 60%			
Aluminum chloride, basic 1327-41-9 40% - 50%			

Section 4: First-aid Measures

Inhalation

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

Eye Contact

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Skin Contact

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

Ingestion

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5: Fire-fighting Measures

Extinguishing Media

Use media suitable for the surrounding fire.

Specific Hazards Arising from the Chemical

None known.

Special Protective Equipment and Precautions for Firefighters

Special Information: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA / NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures**Spill and Leak Procedures**

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Neutralize then Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7: Handling and Storage**Handling Procedures**

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

Storage Requirements

Store containers in a cool, dry, well ventilated place. Keep container closed when not in use.

Section 8: Exposure Control/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Water 7732-18-5			
Aluminum chloride, basic 1327-41-9			

ENGINEERING CONTROLS: Provide ventilation sufficient to maintain exposure below the recommended limits.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

SKIN PROTECTION: Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

Section 9: Physical and Chemical Properties

Physical State: Liquid Odor (threshold): Odorless Solubility: Not Available Flammability: Not Available Flash Point: Not Available Lower & Upper Explosive/Flamability limit: Not Available pH: 1.2 - 2.2 Vapor Pressure (Evap. Rate): Not Available	Color: Colorless to Yellow Melting/Freezing Point: Not Available Boiling Point: Not Available Auto-Ignition Temperature: Not Available Decomposition Temperature: Not Available Partition Coefficient n-octanol/water (log value): Not Available Kinematic Viscosity: Not Available Density: 10.8 - 11.1
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Relative Density: Not Available

Specific Gravity: 1.30 - 1.33

Section 10: Stability and Reactivity

Chemical Stability:

May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas

STABLE

Incompatible Materials

Non acid-proof metals, galvanized surfaces, bases, water reactive material, oxidizers

Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

Hazardous Decomposition Products

If combustion occurs Aluminum oxides, hydrogen chloride, and hydrochloric acids fumes may be generated .

Hazardous Polymerization

Section 11: Toxicology Information

Mixture Toxicity

Oral Toxicity LD50: 4,327mg/kg

Component Toxicity

Routes of Entry:

Inhalation

Ingestion

Skin contact

Eye contact

Target Organs

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			N/A

Section 12: Ecological Information

Component Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Aluminum chloride, basic - (1327-41-9)	86.00, Danio rerio	201.00, Daphnia magna	14.00, Pseudokirchnerella subcapitata

Section 13: Disposal Considerations

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

Section 14: Transportation Information

The following is for US DOT Highway Transportation. Other modes/jurisdictions may have different classifications and have not been disclosed in this section.

UN Code: UN3264

DOT Name: Corrosive liquid, acidic, inorganic, n.o.s. (CONTAINS POLYALUMINUM HYDROXYCHLORIDE)

Hazard Class: 8

Packing Group: III

Section 15: Regulatory Information**CERCLA/SARA Hazardous Substances****SARA 313**

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

This information must be included in all SDSs that are copied and distributed for this material.

TSCA 8(b) Inventory

1327-41-9 Aluminum chloride, basic
7732-18-5 Water

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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Section 16: Other Information

Date Prepared: 11/1/2024

Disclaimer

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.