

Material Safety Data Sheet

MSDS ID: WT-146B

***** Section 1 - Chemical Product and Company Identification *****

Product Name: Praestol K2004

Chemical Name: Aluminum Chloride, basic

Manufacturer Information

Ashland, Inc. P.O. Box 2219 Columbus, OH 43216 (614) 790-3333	Emergency Telephone Number: 1-800-ASHLAND (1-800-274-5263) 24-hours everyday Regulatory Information Number: 1-800-325-3751 Phone: Non-emergency # (800) 242-2271
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General Comments

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving the product. All Non-emergency questions should be directed to the Toll Free, Non-Emergency number above.

***** Section 2 - Hazards Identification *****

Emergency Overview

OSHA classifies this product under 29 CFR 1910.1200, eye irritant and sensitizer to skin.

Potential Health Effects: Eyes

Direct eye contact may cause irritation, redness and swelling. Prolonged exposure to Aluminum salts may cause conjunctivitis.

Potential Health Effects: Skin

Expected to be irritating and especially a sensitizer on prolonged contact or repeated contact.

Potential Health Effects: Ingestion

May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

Inhalation of mist or spray may irritate respiratory tract and mucous membrane irritation.

HMIS Ratings: **Health: 2** **Fire: 0** **Reactivity: 0**
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

***** Section 3 - Composition / Information on Ingredients *****

CAS #	Component
1327-41-9	Aluminum chloride, basic
26062-79-3	Poly(diallyldimethylammonium chloride)

Component Information/Information on Non-Hazardous Components

All components are on the US EPA TSCA list.

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*** Section 4 - First Aid Measures ***

First Aid: Eyes

Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. See Medical Attention.

First Aid: Skin

Wash skin thoroughly with soap and water, remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention if irritation should develop.

First Aid: Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical help immediately. If possible. Give large amounts of water to drink. If vomiting should occur spontaneously, keep airway clear.

First Aid: Inhalation

Remove person to non-contaminated air. Get immediate medical attention.

First Aid: Notes to Physician

Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use of demulcents. Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

Product is a water solution and is non-flammable. In a fire, this product may build up pressure and rupture a sealed container; cool exposed containers with water spray. Use self-contained breathing apparatus in confined areas; avoid breathing vapors or dust.

Upper Flammable Limit (UFL): Not Applicable

Lower Flammable Limit (LFL): Not Applicable

Method Used: Not applicable

Flash Point: Not applicable

Flammability Classification: Not Applicable

Auto Ignition: Not Applicable

Hazardous Combustion Products

Oxides of carbon and nitrogen and other toxic compounds.

Extinguishing Media

Product does not burn. Use water to keep containers cool.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

NFPA Ratings: **Health:** 2 **Fire:** 0 **Reactivity:** 0 **Other:** D

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop leaks. Clean up spill immediately. Build dikes as necessary to contain flow of large spills. Do not allow liquid to enter stream or waterways.

Clean-Up Procedures

For small spills, use soda ash to neutralize, and inert material to absorb, or wash product to a chemical sewer.

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CAUTION: Use of soda ash may generate carbon dioxide. Use appropriate breathing apparatus. Clean up large spills with a vacuum truck. Use inert absorbent such as vermiculite to collect residual liquid. Place contaminated materials into labeled containers and store in a safe place to await proper disposal. Product may slowly corrode iron, brass, copper, aluminum and mild steel.

Evacuation Procedures

Keep unnecessary people away; isolate hazard area and deny entry.

Special Procedures

Product is an irritant to eyes and a sensitizer to skin. Use all necessary means to clean up spill safely. Provide adequate ventilation to spill area. Appropriate breathing apparatus may be necessary.

*** Section 7 - Handling and Storage ***

Handling Procedures

CAUTION!

EYE IRRITANT AND SKIN SENSITIZER

Avoid contact with eyes, skin and clothing. Avoid breathing mists and sprays. Wear chemical splash goggles, gloves and protective clothing when handling. Use adequate ventilation and employ respiratory protection where mist or spray may be generated.

Wash thoroughly after handling. Do not take internally, May be harmful if swallowed or inhaled. Keep away from heat and open flame.

Storage Procedures

Store in a cool dry place away from direct heat. Keep container tightly closed when not in use. DO NOT STORE IN UNLINED METAL containers. Product may slowly corrode iron, brass, copper, aluminum and mild steel.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

TLV = 2 mg/m³ (soluble salts)

B: Component Exposure Limits

No information is available.

Engineering Controls

Provide adequate local exhaust ventilation to minimize worker exposure.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

Personal Protective Equipment: Skin

Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Impervious gloves are recommended.

Personal Protective Equipment: Respiratory

When exposures exceed the PEL, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134.

Personal Protective Equipment: General

Avoid prolonged inhalation of heated vapors. Wear standard work clothing and work shoes. A safety shower and eye wash should be located in the immediate area.

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*** Section 9 - Physical & Chemical Properties ***

Appearance:	Clear, colorless to yellow colored liquid.	Odor:	No appreciable odor.
Physical State:	Liquid	pH:	3.5 (as is)
Vapor Pressure:	18 mm Hg @ 20°C	Vapor Density:	Not available
Boiling Point:	212°F to 220°F	Melting Point:	Not available
Solubility (H2O):	Soluble	Specific Gravity:	1.33-1.35 g/ml
Freezing Point:	-19°F	Evaporation Rate:	Not available
Viscosity:	<50 cps	Flash Point:	Not Applicable

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable if stored and handled under recommended conditions.

Chemical Stability: Conditions to Avoid

Corrosive Liquid! Avoid storage in unlined metal containers. Product may slowly corrode iron, brass, copper, aluminum and mild Steel.

Incompatibility

Product is incompatible with alkalis.

Hazardous Decomposition

Thermal decomposition may release toxic and/or hazardous gases such as chlorine and hydrochloric acid.

Hazardous Polymerization

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

No information is available.

B: Acute Toxicity-LD50/LC50

Aluminum chloride, basic (1327-41-9)

LD50:	Oral LD50 Rat: >2000 mg/kg
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CAS 1327: Skin Irritation (human): 150 mg/3D-1 Mild irritation effects (1)

(1) "Cutaneous Toxicity" Drill, V.A. and P. Lazar, eds., New York, NY, Academic Press, 1977

Poly(diallyldimethylammonium chloride) (26062-79-3)

LD50:	Oral LD50 Rat: 3 g/kg
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Carcinogenicity

A: General Product Information

Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

B: Component Carcinogenicity

No information is available.

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*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information is available.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No information available.

Environmental Fate

No information available.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous waste.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Contain and collect using absorbent material if needed. Place collected material into properly labeled, suitable containers for proper disposal. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

	US Department of Transportation DOT*	Canada (TDG)	IATA/ICAO
Shipping Name:	Exempted	Corrosive liquid, acidic, inorganic, n.o.s.	
Hazard Class/Division:	Not Applicable	8 : Corrosive Liquid	Class 8
Identification No.:	UN3264	UN3264	
Packing Group:	Not Applicable	III	

*NOTE: This product is exempted from DOT regulations under 49 CFR 173.154(d). Product exception is referenced in 49 CFR 172.101 Table.

Packaging material must not be aluminum, steel or be degraded by this material.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

SARA Section 311/312: Acute Health Hazard.

TSCA: Components found in TSCA inventory

This product does not contain any ingredients subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372).

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B: Clean Air Act

No information available

Component Analysis - State

None of this product's components listed in Section 2 are on the state lists from CA, FL, MA, MN, NJ, or PA.

Component Analysis - WHMIS IDL

E: Corrosive

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Aluminum chloride, basic	1327-41-9	Yes	DSL	EINECS 215-477-2
Poly(diallyldimethylammonium chloride)	26062-79-3	Yes	DSL	Not regulated as a polymer

* * * Section 16 - Other Information * * *

Other Information

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.

This is the end of MSDS ID: WT-146B