



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC. 20500 Trans Canada Hwy
Baie d'Urfé, Quebec H9X 0A2
CANADA

Nutrafin Water Conditioner
P Clear
A7643

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Section I. Product identification and uses		Section II. Hazardous ingredients
Product name	P CLEAR	Aluminium Hydroxychloride 5 % (%W) C.A.S. No 12042-91-0
Chemical formula	Mixture	
Chemical family	Aluminium chlorhydrate, aqueous solution	
Material uses	Water clarifier	

Section III. Physical data	
Physical state and appearance/Odour	Turquoise liquid with slight characteristic odour.
pH	4.2-4.5
Percent volatile	Not applicable
Freezing point	30.2° F (-1 °C)
Boiling point	213.5°F (100.7°C)
Specific gravity	1.024
Vapour density	Not applicable
Vapour pressure	Not applicable
Evaporation rate	As water
Solubility	Miscible

Section IV. Fire and explosion data
Not applicable.

Section V. Reactivity data
Stable. Conditions to avoid: high temperature, fire.



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Section VI. Toxicological properties	
Routes of entry	
Effects of acute	Not available
Eye	Direct contact irritates slightly to moderately with redness and swelling.
Skin	A single relatively short exposure causes no known adverse effect. Several repeated prolonged exposures (24 to 48 hours) may irritate
Inhalation	No specific information. May cause irritation.
Ingestion	Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may injure slightly.
Effects of chronic overexposure	No specific information. Repeated exposure to skin may result in sensitization dermatitis. Prolonged or repeated contact with the eyes may result in conjunctivitis

Section VII. First aid measures	
Eye contact	Flush eyes with plenty of water, lifting lids periodically for at least 15 minutes. Consult a physician if irritation persists.
Skin contact	Wipe off and flush with water.
Inhalation	Get medical attention if there is any discomfort.
Ingestion	Get medical attention if large amount swallowed or there is any discomfort.



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Section VIII. Preventive measures

Protective clothing in case of spill and leak	Wear protective gloves (Neoprene or other impervious glove). Wear chemical goggles or full face piece respirator or breathing apparatus. Do not wear contact lenses.
Spill and leak	Contain and absorb spills or leaks with suitable absorbent material. Place solid residue into drums or other appropriate containers for off-site disposal.
Waste disposal	Dispose of waste material in municipal or industrial landfill as allowed by regulatory authorities. Flush contaminated area with soap and water and drain to industrial wastewater treatment plant.
Storage and handling	Store away from high temperature. Store between 0°C and 50°C.

Section IX. Protective measures

Protective clothing	Chemical resistant gloves. Wear impervious protective clothing. Chemical safety goggles.
Engineering controls	None

Section X. Other information

Special precautions or comments None.

Prepared by Rolf C. Hagen Inc.
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