Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910, 1200. Standard must be
consulted for specific requirements

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072 HMIS 2II/OF/OR

IDENTITY (As used on Label and List

PC-H180

Note: Blank spaces are not permitted, if any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name HOLLAND COMPANY, INC.	Emergency Telephone Number 413-743-1292
Address (Number, Street, City, State and Zip Code) 153 HOWLAND AVENUE	Telephone Number for Information 413-743-1292
ADAMS, MASSACHUSETTS 01220	Date Prepared JUNE 2004
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Names(s)

	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Aluminum Soluble Salt	N/A	N/A	N/A	> 50%
Non-hazardous and other Ingredients	N/A	N/A	N/A	< 50%

CAS NO. 14215-15-7
DOT: Environmentally Hazardous Substance pH in concentrate: >2
Liquid, N.O.S. 9, UN 3082, PG III
(Water Soluble Aluminum Salt)

Section III - Physical/Chemical Characteristics

Boiling Point	220°F	Specific Gravity (H_2O-1)	1.26+ .02
Vapor Pressure (mm Hg.)	17 mm HG @ 68°F	Melting Point	N/A
Vapor Density (AIR -1)	N/A	Evaporation Rate (Butyl Acetate - 1)	N/A

Solubility in Water
100%

Appearance and Odor
CLEAR AMBER SOLUTION; NEGLIGIBLE ODOR

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) NOT FLAMMABLE	Flammable Limits N/A	LEL N/A	UEL N/A

Extinguishing Media
N/A

Special Fire Fighting Procedures
N/A

Unusual Fire and Explosion Hazards
AT ELEVATED TEMPERATURE, MAY DECOMPOSE RELEASING CORROSIVE HCL VAPOR. REACTS WITH AL AND ZN RELEASING H_2 GAS.

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	MILDLY CORROSIVE, AVOID CONTACT WITH METAL

Incompatibility (Materials to Avoid)
AVOID CONTACT WITH UNALLOYED STEEL, GALVINIZED METAL, CHLORITE, HYPOCHLORITE, SULFITE

Hazardous Decomposition or Byproducts
SEE SECTION IV - UNUSUAL FIRE AND EXPLOSION HAZARDS

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?
IRRITATION OF EYES ON CONTACT. DRY SKIN

Health Hazards (Acute and Chronic)
CONTACT WITH EYES, SKIN OR MUCOUS MEMBRANES WILL CAUSE IRRITATION.
CORROSIVE IF INGESTED.

Carcinogenicity: NTP? N/A IARC Monographs? N/A OSHA regulated? N/A

Signs and Symptoms of Exposure
EYE IRRITATION ON CONTACT, DRY SKIN ON CONTACT

Medical Conditions Generally Aggravated by Exposure
EYE IRRITATION ON CONTACT, DRY SKIN ON CONTACT

Emergency and First Aid Procedures:
FLUSH EYES WITH WATER, WASH SKIN WITH WATER.
INGESTION - DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. SEEK MEDICAL AID.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
FLUSH SMALL SPILLS WITH WATER. CONTAIN ANY MAJOR SPILL AND NEUTRALIZE WITH ALKALI SUCH AS LIME, SODA ASH, OR CAUSTIC SODA (BE ALERT TO CARBON DIOXIDE GENERATION FROM FIRST TWO ALKALIES)

Waste Disposal Method
AS ABOVE DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Precautions to Be Taken in Handling and Storing
AVOID CONTACT WITH EYES, HANDS OR CLOTHING, WASH HANDS THOROUGHLY AFTER HANDLING.

Other Precautions: RECOMMENDED MAXIMUM USE FOR POTABLE WATER 205 MG/LITER

Section VIII - Control Measures

Respiratory Protection (Specify Type)
N/A

Ventilation	Local Exhaust ADEQUATE	Special NONE REQUIRED
	Mechanical (General) NONE REQUIRED	Other NONE REQUIRED

Protective Gloves	Eye Protection
RUBBER OR EQUIVALENT	GOGGLES OR FACE SHIELD

Other Protective Clothing or Equipment
LONG SLEEVE SHIRT, PANTS, RUBBER BOOTS

Work/Hygienic Practices
WASH HANDS AFTER CONTACT. WEAR GOGGLES OR FACE SHIELD.