

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

Prepared by R.K.
Effective Date 11/98

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: Pow
Generic Name: Acid Cleaner/Descaler
Suppliers Name: Ultra-Chem, Inc
Suppliers Address: 8043 Flint
Lenexa, KS 66214
Proper Shipping Name: Corrosive Liquids, N.D. 3, N.F. 150, P.S. 1 Contains: Hydrochloric Acid

Chemical Family:
Formula:
Information Phone Number: 800-451-0726
Emergency Phone Number: 800-451-0726

HMIS Hazardous Materials Identification System

Health	3
Flammability	3
Reactivity	1
Maximum Personal Protection	C

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV	CARCINOGEN
Hydrogen Chloride	7647-01-0	< 65	5ppm	500m	No info	No

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

CAS#	Chemical Name	Percent by Weight
7647-01-0	Hydrochloric Acid	61.4

SECTION 3 - PHYSICAL DATA

Boiling Range (°F): 182 - 500°
Vapor Pressure: 28mm/Hg @ 68°F
% Volatile: 70+
Solubility in Water: Complete
Physical Description: Milky White Liquid, Acid Odor.

Specific Gravity: 1.10 - 1.12
Vapor Density: Heavier than Air
pH: 0
Evaporation Rate: Slower than Ether

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A
Upper Explosive Limit: N/A
Lower Explosive Limit: N/A
Extinguishing Media: Appropriate for surrounding fire.
Special Fire Fighting Procedures: Self Contained SCBA and Impervious Clothing.
Unusual Fire and Explosion Hazards: Toxic Fumes may be Released.

SECTION 5 - REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur.
Incompatibility (Materials to Avoid): Metals, Oxidizers, Strong Alkalies.
Hazardous Decomposition Products: Hydrogen Gas, Chlorine Compounds.

SECTION 6 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage: Keep out of reach of children.
Keep container tightly closed when not in use.
For Trained Industrial and Institutional Personnel Only.

SECTION 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Primary Route of Entry:
Skin: Destructive - Overexposure may produce burns.
Eyes: Destructive - Exposure may cause burns, eye injury and blindness.
Inhalation: Excessive inhalation may damage respiratory tract. Possible nausea, dizziness, and difficulty breathing.
Ingestion: Corrosive, large quantities could cause severe pain, nausea, death.

First Aid Procedures:

Skin: Flush with water 15 minutes. Remove contaminated clothing. Seek medical attention if irritation persists.
Eyes: Flush with water for 15 minutes while lifting eyelids to ensure complete removal. Seek immediate medical attention.
Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.
Ingestion: Do not induce vomiting. If conscious, give large quantity of water or milk. Get medical attention.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH/OSHA approved respirators for materials in section 2 when ventilation is restricted.
Protective Gloves: Acid proof.

Ventilation: Sufficient ventilation in volume and pattern should be provided to keep air contamination at a minimum.
Eye Protection: Safety glasses or goggles.

Other Protective Equipment: Wear boots and impervious clothing.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
Use appropriate protective and respiratory equipment.
Prevent spills from entering sewers or any unauthorized water systems.

Waste Disposal Method:
Dispose in accordance with appropriate Federal, State and Local regulations.