

MATERIAL SAFETY DATA SHEET / page 1

CHLORAT HF

HAZARD RATING **HAZARD CODE**



- 4- SEVERE
- 3- SERIOUS
- 2- MODERATE
- 1- SLIGHT
- 0- MINIMAL

FIRE HAZARD (0) HEALTH HAZARD (4) REACTIVITY (2)

PERSONAL PROTECTION (R)



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SECTION I:	PRODUCT IDENT	IFICATION	
TRADE NAME AND SYNOI	NYMS CH	EMICAL FORMULA	MATERIAL USE
CHLORAT HF	Pro	prietary	Foaming chlorinated alkaline cleaner
SECTION II: HAZARDOUS INGREDIENTS OF MATERIAL			
HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION (%)	CAS. NA OR UN NUMBERS	LD ₅₀ (SPECIFY SPECIES & ROUTE)
Sodium Hydroxide	5-10 %	1310-73-2	500 mg/kg (Oral-Rabbit)
Sodium Hypochlorite	1-3 %	7681-52-9	8 mg/Kg >
The other ingredients are not hazardous.			
SECTION III:	PHYSICAL DATA OF MATERIAL		
PHYSICAL STATE	pH (1.0%)	ODOUR AND A	APPEARANCE
Liquid	11.50±1.	00 Chlorine-	Clear Yellowish
% VOLATILE (BY VOL.)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MN	1) VAPOUR DENSITY (AIR-1)
N/AV	1.125±0.050	N/AV	N/AV
EVAPORATION RATE	BOILING POINT (°C)	FREEZING POINT (°C)	SOLUBILITY IN WATER (20°C)
N/AV	N/AV	N/AV	Complete
N/A = Not A	Applicable		N/AV = Not Available
SECTION IV: FIRE AND EXPLOSION HAZARD			
MEANS OF EXTINCTION Vaporised water, form of carbon bioxide FLAMMABILITY NO VECTOR AND FLAMMABILITY OF			

Vaporised water, foam of carbon bioxide. HAZARDOUS COMBUSTION PRODUCTS CO, CO₂ products of combustion. SPECIAL PROCEDURES N/A

IF YES UNDER WHAT CONDITIONS? N/A FLASH POINT (°C) AND METHOD N/A

UPPER EXPLOSION LIMIT (% BY VOLUME) N/A LOWER EXPLOSION LIMIT (% BY VOLUME) N/A

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Information contained in this literature is believed to be accurate and is offered in good faith for the benefit of the consumer. The company, however, cannot assume any liability or risk involved in the use of its chemical products since the conditions of use are beyond our control.



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SECTION V: REACTIVITY DATA

CHEMICAL STABILITY
YES
REACTIVITY AND UNDER WHAT CONDITIONS?
IF NO, UNDER WHAT CONDITIONS? N/A
When in contact with acids and ammonia.

NCOMPATIBILITY TO OTHER SUBSTANCES YES

HAZARDOUS DECOMPOSITION PRODUCTS

Acids and Ammonia. oxydes of chlorine.

CO, CO₂ are also the products of decomposition.

SECTION VI: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY EXPOSURE LIMITS N.AV.

Skin contact CARCINOGENICITY, REPRODUCTIVE EFFECTS,

Eye contact TERATOGENICITY, MUTAGENICITY

Ingestion

SKIN: Causes severe irritation. EYES: Causes severe irritation.

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

F SO, WHICH ONES?

INGESTION: May causes irritation, abdominal pain, diarrhea.

SECTION VII: PREVENTIVE MESURES

PERSONAL PROTECTIVE EQUIPMENT ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS

GLOVES (SPECIFY) SPECIFY) N/A

Rubber LEAKS AND SPILLS PROCEDURE

EYES (SPECIFY) Wash away with water.
Safety goggles WASTE DISPOSAL

RESPIRATORY (SPECIFY)

Neutralize and then dispose according to local laws.

None HANDLING PROCEDURES AND EQUIPMENT

OTHER (SPECIFY) N/A

None STORAGE REQUIREMENTS

Steel or plastic. Store at 20°C to 30°C. Keep lid closed.

SPECIAL SHIPPING INFORMATION

Shipping temperature has to be between 20°C and 30°C.

This product decomposes at high temperature to generate

SECTION VIII: FIRST AID MEASURES

SKIN: Flush skin with abundant water for 15 minutes. If irritation persists, seek medical attention.

EYES: Flush eyes with abundant water for 15 minutes. If irritation persists, seek medical attention.

INGESTION: Drink 3-4 glasses of water, do not induce vomiting. Consult physician.

SECTION IX: EMERGENCY NUMBER

PREPARED BY PHONE NUMBER DATE

Technical Department Tel: 514-745-2597 March 25, 2005

SECTION X: W.H.M.I.S. Classe(s) : E

SHIPPING: Corrosive liquids N.O.S. / Sodium hydroxide in solution

Classe 8 (9.2) UN 1824 PG II

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