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U.S. DEPARTMENT OF LABOR

WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

37350-RM
1- S.D. File
1- Lab File
1- R. Sorrell

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: Vulcan Materials Co., Chemicals Division	EMERGENCY TELEPHONE NO.: 316-524-4211
ADDRESS (Number, Street, City, State, and ZIP Code): P. O. Box 585, Wichita, Kansas 67201	
CHEMICAL NAME AND SYNONYMS: Hydrogen Chloride, Anhydrous	TRADE NAME AND SYNONYMS: Anhydrous Hydrochloric Acid
CHEMICAL FAMILY: Mineral Acid	FORMULA: HCl

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Heat of solution in water causes temperature to rise to boiling		
point. Large amount of heat generated if neutralized with strong		
base.		

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	-121	SPECIFIC GRAVITY (H_2O=1)	0.9977
VAPOR PRESSURE (mm Hg.) @ 70° F.	32,050	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	1.268	EVAPORATION RATE (_____=1)	
SOLUBILITY IN WATER	Appreciable		
APPEARANCE AND ODOR	Colorless liquid, white fumes in moist air. Pungent odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	None

Lel	Uel

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

DSW 267560

UNUSUAL FIRE AND EXPLOSION HAZARDS: Nonflammable, but reacts with most metals when wet with evolution of hydrogen which may cause explosion or fire in air.

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HCL ANHYDROUS

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 5 ppm

EFFECTS OF OVEREXPOSURE: Rapidly causes severe irritation of the eyes and upper respiratory tract.

EMERGENCY AND FIRST AID PROCEDURES: Removal from contaminated area, washing of eyes and skin with liberal supply of clean water. Upon inhalation, oxygen administration usually furnishes relief from coughing.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE	XX	CONDITIONS TO AVOID: Very corrosive when wet. Will attack most meta
	STABLE		and evolve hydrogen gas.

INCOMPATABILITY (Materials to avoid): Generates large amount of heat in contact with strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen formed upon corrosion of metal is very flammable.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all persons from contaminated area. If possible absorb vapors in water and contain the water for disposal.

WASTE DISPOSAL METHOD: Neutralize aqueous solution using sodium hydroxide, or sodium carbonate.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Canister with organic vapor cartridge, or self-contained breathing apparatus

VENTILATION	LOCAL EXHAUST: Adequate ventilation required	SPECIAL
	MECHANICAL (General)	OTHER

PROTECTIVE GLOVES: Rubber or polyvinyl alcohol coated

EYE PROTECTION: Cover goggles

DSW 267561

OTHER PROTECTIVE EQUIPMENT: Use rubber suit and shoes

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Observe safety rules for handling cylinders of compressed gases.

OTHER PRECAUTIONS: Should never be used in such a way that would permit water or other foreign material to enter cylinders.

APPROVED: Monsanto Medical Dept.

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