Form Approved OMB
No. 44-R1387
Approval Expires:
July 30, 1972

U.S. DEPARTMENT OF LABOR

Form No. OSHA-20
May, 1971

82851 - Various
(also 82863)
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MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: MONSANTO COMPANY	EMERGENCY TELEPHONE NO.: (314) 694-1000
ADDRESS (Number, Street, City, State, and ZIP Code): 800 North Lindbergh Boulevard, St. Louis, Missouri 63166	
CHEMICAL NAME AND SYNONYMS: Hydrogen Chloride (Gaseous)	TRADE NAME AND SYNONYMS: HCl Gas Crude (mixture with air)
CHEMICAL FAMILY: Strong 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)

SECTION III PHYSICAL DATA

BOILING POINT (°F.) 760 mm	-85°C	SPECIFIC GRAVITY (H_2O=1)	N.A.
VAPOR PRESSURE (mm Hg.) at 18°C	4.0 atmos	PERCENT VOLATILE BY VOLUME (%)	100%
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (BuAc =1)	N.A.
SOLUBILITY IN WATER at 18°C appreciable	42%		
APPEARANCE AND ODOR: Colorless gas		strong irritating odor	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): None	FLAMMABLE LIMITS: N.A.	Lel	Uel
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS: Reacts with many metals to liberate explosive hydrogen gas when wet.			

DSW 267514

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Crude Hydrogen Chloride

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 5 ppm in air, 7 mg per cubic meter in air.

EFFECTS OF OVEREXPOSURE: Irritation of the mucous membranes of the eyes and respiratory tract, severe exposures result in pulmonary edema.

EMERGENCY AND FIRST AID PROCEDURES: Remove from exposure. Wash contacted area with large amounts of water. If severe, refer to physician.

SECTION VI REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*: Strong basic materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb in large quantities of water and flush to sewer. Wash down area thoroughly.

WASTE DISPOSAL METHOD: Absorb in water, neutralize with limestone or soda ash and flush to sewer with large quantities of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*: Bureau of Mines approved respirator for acid gases.

VENTILATION		
	LOCAL EXHAUST: Yes - for vapors	SPECIAL
	MECHANICAL *(General)*	OTHER

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Chemical goggles

OTHER PROTECTIVE EQUIPMENT:

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Not allow to contact strongly basic materials. Avoid contact with skin or eyes, avoid inhalation of gas.

OTHER PRECAUTIONS:

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, MONSANTO COMPANY MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

JAG:HOH:JTG:WBP 2/4/72

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