TRANS CHEM, INC.

TRANSCHEM

MATERIAL SAFETY DATA SHEET

SEC 1 PRODUCT IDENTIFICATION

PRODUCT NAME:

HYDROCHLORIC ACID SOLUTION - 20 & 22 Deg. Be (31.5 & 35.2%)

EFFECTIVE DATE:

March 1, 1990

CHEMICAL FORMULA:

HCl.

SYNONYMS: HYDROGEN CHLORIDE (AQUEOUS)

HAZARDOUS INGREDIENTS:

CAS#		
7647-01-0	HYDROCHLORIC ACID	20 Deb. Be - 31.5% 22 Deg. Be - 35.2%

EMERGENCY TELEPHONE NUMBERS

KATY, TX 1-800-324-9133

BATON ROUGE, LA 1-504-355-9977

CHEMTREC: 1-800-424-9300

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SEC 2 PHYSICAL DATA

APPEARANCE:
CLEAR COLORLESS TO YELLOWISH FUMING LIQUID.

ODOR:
PUNGENT & IRRITATING

SOLUBILITY:
COMPLETE

BOILING POINT:
53 Deg. C (127 Deg. F); Azeotrope (20.2%) Boils at 108 Deg. C (228 Deg. F)

SPECIFIC GRAVITY:
1.600/1.1789 @ 15.5/15.5 Deg. C - 20 & 22 Deg. Be, respectively.

VAPOR DENSITY
SIMILAR TO WATER

VAPOR PRESSURE
24/100 mm Hg; 20 & 22 Deg. Be , respectively.

EVAPORATION RATE:
NOT APPLICABLE

SEC 3 FIRE AND EXPLOSION INFORMATION

FIRE:
NOT FLAMMABLE (HOWEVER CONTACT WITH MOST METALS & MAY PRODUCE HYDROGEN GAS TO POTENTIALLY EXPLOSIVE LIMITS)

EXPLOSION:
SEE "FIRE"

FIRE EXTINGUISHING MEDIA:
USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE

SEC 8 STORAGE AND SPECIAL INFORMATION

STORE AND HANDLE ONLY IN CONTAINERS SUITABLY LINED WITH OR CONSTRUCTED OF MATERIALS SPECIFIED FOR THIS PRODUCT (CONSULT YOUR SUPPLIER) PROTECT AGAINST PHYSICAL DAMAGE. KEEP SEPARATE FROM INCOMPATIBLES.

SEC 9 REGULATORY INFORMATION

DOT HAZARD CLASS: CORROSIVE MATERIAL	DOT PLACARD REQUIRED: CORROSIVE UN 1789	DOT LABEL: CORROSIVE

Reportable Quantity - 5,000 Lbs. \ 2270 Kgs.

NFPA/HMIS ratings: Health - 3 ; Flammability - 0 ; Reactivity - 0

SARA Title III Reporting Sections 302, 311, & 313-

313 reporting requirements include the releases of listed toxic chemicals for facilities in Standard Industrial Codes 20-39 , who manufacture, import, process or otherwise use a toxic chemical or mixture containing the toxic chemical above the reporting threshold. Thresholds are 50,000 lbs./yr. for 1988 - 25,000 lbs./yr. for 1989 and thereafter for toxic chemicals that are manufactured ,imported, or processed. The threshold limit is 10,000 lbs./yr. for toxic chemicals that are otherwise used.

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SEC 4 REACTIVITY DATA:

STABILITY:
STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE

HAZARDOUS DECOMPOSITION PRODUCTS:
HYDROGEN GAS WILL BE FORMED IF ACID CONTACTS METAL.

HAZARDOUS POLYMERIZATION:
THIS SUBSTANCE DOES NOT POLYMERIZE.

INCOMPATIBILITIES (MATERIALS TO AVOID):
RAPIDLY CORRIDES MOST METALS. AVOID CONTACT WITH ALUMINUM AND ALUMINUM ALLOYS, CARBON STEEL, COPPER AND COPPER ALLOYS, AND NYLON.

SEC 5 LEAK/SPILL DISPOSAL INFORMATION

RELEASES/SPILLS and DISPOSAL :
CONTAIN, NEUTRALIZE AND THEN DISPOSE OF AT AN APPROVED HAZARDOUS MATERIALS DISPOSAL SITE ; PURSUANT TO LOCAL, STATE AND FEDERAL REGULATIONS.

SEC 6 HEALTH HAZARD INFORMATION

A. EXPOSURE/HEALTH EFFECTS

INHALATION:
INHALATION CAUSES SEVERE IRRITATION OF UPPER RESPIRATORY TRACT.

INGESTION:
CORROSIVE ! INGESTION OF HYDROCHLORIC ACID CAN CAUSE BURNS OF THE MOUTH, THROAT, ESOPHAGUS AND GASTROINTESTINAL TRACT.

SKIN CONTACT:
CORROSIVE ! CAN CAUSE REDNESS, PAIN AND SKIN BURNS. CAN CAUSE CHEMICAL BURNS AND TISSUE DESTRUCTION. IMMEDIATEDLY FLUSH WITH WATER.

EYE CONTACT:
CONTINUOUSLY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST TWENTY MINUTES. IF IRRITATION CONTINUES AFTER FLUSHING , SEEK MEDICAL ATTENTION.

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ONIC EXPOSURE:
MAY CAUSE DERMITITIS AFTER REPEATED ACUTE EXPOSURES.

AGGRAVATION OF PRE-EXISTING CONDITIONS:
NONE KNOWN

TOXICITY DATA: (RTECS 1983-4 SUPPLEMENT TO 81-82),
INHALATION LC50 - 3124 PPM 1 HR (RAT)
ORAL LD50 - 900 MG/KG (RABBIT)

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:
NTP -NO ; IARC -NO ; OSHA -NO ; ACGIH -NO

B. EMERGENCY/FIRST AID

INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CALL PHYSICIAN.

INGESTION :
DO NOT INDUCE VOMITING! GIVE LARGE QUANTITIES OF WATER OR MILK OF MAGNESIA. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET IMMEDIATE MEDICAL ATTENTION.

EYE EXPOSURE :
FLUSH EYES WITH PLENTY OF WATER FOR AT 20 MINUTES. SEEK MEDICAL ATTENTION.

SEC 7 OCCUPATIONAL CONTROL MEASURES

OSHA PERMISSABLE EXPOSURE LIMIT:
5 PPM CL

ACGIH THRESHOLD LIMIT VALUE (TLV)
7 MG/M3 as HCl

VENTILATION SYSTEM:
LOCAL EXHAUST- TO MEET THE TLV REQUIREMENTS.

PERSONAL RESPIRATORS: (NIOSH APPROVED)
WORKING IN OR ABOUT AN AREA OF POTENTIAL EXPOSURE, IF THE MATERIAL IS FUMING AND EXCEEDS THE TLV

SKIN PROTECTION:
WEAR IMPERVIOUS PROTECTIVE CLOTHING; INCLUDING BOOTS; GLOVES; LAB COAT; APRON OR COVERALLS TO PREVENT SKIN CONTACT

EYE PROTECTION:
USE CHEMICAL SAFETY GOGGLES IMPERVIOUS TO PRODUCT. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.