

T. DONOVAN & SON (1997) LTD.
MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: 5% HYDROCHLORIC ACID

CHEMICAL NAME: 5% HYDROCHLORIC ACID

MANUFACTURER: T. DONOVAN & SON (1997) LTD

REGULAR PHONE #: 506-642-1500 HOURS: 8:30 - 4:30

EMERGENCY PHONE #: 613-996-6666 CHEMICAL EMERGENCIES ONLY

PRODUCT USE: INDUSTRIAL USE ONLY.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	CONC.%	CAS #
HYDROGEN CHLORIDE	5.0 %	7647-01-0

SECTION III - PHYSICAL DATA

PHYSICAL STATE	: LIQUID	ODOR	: STRONG ODOR
BOILING POINT (C)	: 84 DEG C	FREEZING POINT (C)	: 0 DEG C
ODOR THRESHOLD	: N/A	VAPOR PRESSURE	: N/A
VAPOR DENSITY	: N/AP	PERCENT VOLATILE	: N/A
EVAPORATION RATE	: N/A	pH	: < 1.0
SPECIFIC GRAVITY	: N/A	COEFF WATER / OIL	: N/AP
SOLUBILITY IN WATER	: SOLUBLE	BULK DENSITY	: N/AP

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY : NON-FLAMMABLE

EXTINGUISHING MEDIA : WATER SPRAY, CO2, OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROC : STOP FLOW OF CHEMICAL. KEEP FIRE EXPOSED
CONTAINERS COOL WITH WATER. WEAR NIOSH APPROVED

SELF CONTAINED BREATHING APPARATUS.

FIRE & EXPLOSION HAZARDS : PRESENCE OF OIL OR OTHER COMBUSTIBLE MATERIAL
WILL INCREASE FIRE HAZARD.

FLASHPOINT : NONE

AUTO-IGNITION TEMPERATURE (C): N/A

UPPER FLAMMABILITY LIMIT : N/A

LOWER FLAMMABILITY LIMIT : N/A

HAZARDOUS COMB. PROD. : N/A

EXPLOSION SENSITIVITY TO IMPACT: N/A

SENSITIVITY TO STATIC : N/A

5% HCL

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY : YES, STABLE UNDER NORMAL CONDITIONS OF USE.

INCOMPATIBILITY : ALKALIS, COMBUSTIBLE MATERIAL, OXIDIZING AGENTS, REDUCING MATERIALS, CYANIDES, SULFIDES, FORMALDEHYDE

CONDITIONS TO AVOID : EXCESSIVE HEAT, SPARKS AND OPEN FLAME.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION: HYDROGEN GAS

SECTION VI - TOXICOLOGICAL EFFECTS

CHRONIC AND ACUTE EFFECTS UPON ROUTES OF ENTRY

EYE CONTACT: CAUSES SEVERE BURNS AND ULCERATION

SKIN CONTACT: CAUSES CHEMICAL BURNS, CAN CAUSE DERMATITIS. REPEATED CONTACT CAN CAUSE ULCERATION.

INGESTION: CAUSES SEVERE BURNS OF THE MOUTH, ESOPHAGUS AND STOMACH.

INHALATION: CAUSES BURNS. RESPIRATORY IRRITATION, BREATHLESSNESS, COUGHING CHEST TIGHTNESS AND DIFFICULTY BREATHING.

EXPOSURE LIMITS : 5 PPM

SYNERGISTIC PRODUCTS: NONE

IRRITANCY : CAUSES BURNS

SENSITIZATION : N/A

CARCINOGENICITY : NONE

TERATOGENICITY : N/A

MUTAGENICITY : NONE

REPRODUCTIVE TOXICITY: N/AV

SECTION VII - EMERGENCY AND FIRST AIR PROCEDURES

IN ALL CASES, SEEK MEDICAL ATTENTION IMMEDIATELY

EYE CONTACT: FLUSH EYES WITH WATER FOR A MINIMUM OF 30 MINUTES, 60 MINUTES IS PREFERRED, HOLDING THE EYELIDS OPEN. DO NOT TRANSPORT VICTIM UNTIL THE RECOMMENDED FLUSHING PERIOD IS COMPLETE UNLESS FLUSHING CAN BE CONTINUED DURING TRANSPORT.

SKIN CONTACT: FLUSH WITH RUNNING WATER AND WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. COMPLETELY DECONTAMINATE CLOTHING AND ALL PROTECTIVE EQUIPMENT.

INGESTION: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING TO DRINK. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD. REPEAT ADMINISTERING WATER.

INHALATION: REMOVE FROM CONTAMINATED AREA. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF DIFFICULTY BREATHING, GIVE OXYGEN ONLY BY TRAINED PERSONNEL.

5% HCL

SECTION VIII - PREVENTIVE MEASURES

EYE PROTECTION : SAFETY OR CHEMICAL GLASSES FOR FULL FACE MASK.
SKIN PROTECTION : RUBBER OR PLASTIC GLOVES, COVERALLS OR APRON.
RESPIRATORY PROTECTION : WEAR NIOSH APPROVED RESPIRATOR.
ENGINEERING CONTROLS : GENERAL MECHANICAL VENTILATION.

SPILL & LEAK PROCEDURES : WEAR NECESSARY PROTECTIVE CLOTHING AND EQUIPMENT.
CONSTRUCT A BARRIER AND NEUTRALIZE WITH SODA ASH FOR DISPOSAL. PUMP SPILLED
PRODUCT INTO WASTE CONTAINER.

WASTE DISPOSAL : DISPOSE ACCORDING TO LOCAL, PROVINCIAL AND FEDERAL LAWS.

HANDLING & STORAGE : STORE IN CLOSED CONTAINERS IN DRY, COOL AREAS AWAY FROM
ALL HEAT SOURCES AND SPARKS

SECTION IX - TRANSPORT AND REGULATORY INFORMATION

TDG REGULATION : HYDROCHLORIC ACID
CLASS 8 (9.2) UN 1789
PACKING GROUP II

WHMIS CLASSIFICATION : CLASS D-1A, E

PREPARED BY: TECHNICAL SERVICES DEPARTMENT
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