

T. DONOVAN & SON (1997) LTD.

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: LIQUID CAUSTIC 50%

CHEMICAL NAME: SODIUM HYDROXIDE SOLUTION

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 #
SODIUM HYDROXIDE	50 %	1310-73-2
WATER	50 %	7732-18-5

SECTION III - PHYSICAL DATA

PHYSICAL STATE	: LIQUID	ODOR	: NO ODOR
BOILING POINT (C)	: N/A	FREEZING POINT (C)	: 14 DEG C
ODOR THRESHOLD	: N/AP	VAPOR PRESSURE	: 1.5
VAPOR DENSITY	: N/AP	PERCENT VOLATILE	: 0
EVAPORATION RATE	: N/AP	pH	: 14 (1% SOLN.)
SPECIFIC GRAVITY: 1.52 @ 20 DEG C		COEFF WATER / OIL	: N/AP
SOLUBILITY IN WATER: SOLUBLE		BULK DENSITY	: 1430 KG/M3

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY : NON FLAMMABLE

EXTINGUISHING MEDIA : NON FLAMMABLE, FOR FIRES INVOLVING THIS PRODUCT, WATER FOG, CO2, OR FOAM MAY BE USED.

SPECIAL FIRE FIGHTING PROC : WEAR NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS.

FIRE & EXPLOSION HAZARDS : NONE

FLASHPOINT : NON COMBUSTIBLE

AUTO-IGNITION TEMPERATURE (C): N/A

UPPER FLAMMABILITY LIMIT : N/A

LOWER FLAMMABILITY LIMIT : N/A

HAZARDOUS COMB. PROD. : NONE KNOWN

EXPLOSION SENSITIVITY TO IMPACT: N/A

SENSITIVITY TO STATIC : N/A

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### SECTION V - REACTIVITY DATA

CHEMICAL STABILITY : YES, STABLE UNDER NORMAL CONDITIONS OF USE.  
INCOMPATIBILITY : STRONG ACIDS  
CONDITIONS TO AVOID : REACTS WITH ACIDS  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
HAZARDOUS DECOMPOSITION: CARBON DIOXIDE

### SECTION VI - TOXICOLOGICAL EFFECTS

#### CHRONIC AND ACUTE EFFECTS UPON ROUTES OF ENTRY

EYE CONTACT: CORROSIVE - CAUSES IRRITATION AND SEVERE BURNS. ULCERATION & BLINDNESS MAY OCCUR.

SKIN CONTACT: CORROSIVE - CAPABLE OF CAUSING SEVERE BURNS WITH DEEP ULCERATION AND TEMPORARY LOSS OF HAIR.

INGESTION: STRONG PAIN, BURNING OF MOUTH AND THROAT, VOMITING, DIARRHEA, INFLAMMATION OF LARYNX, COMA OR POSSIBLE DEATH.

INHALATION: IRRITATION OF NOSE, THROAT AND LUNGS. SEVERE PNEUMONITIS MAY OCCUR.

EXPOSURE LIMITS	: N/A	SYNERGISTIC PRODUCTS	: N/A
IRRITANCY	: N/A	SENSITIZATION	: N/A
CARCINOGENICITY	: N/A	TERATOGENICITY	: N/A
MUTAGENICITY	: N/A	REPRODUCTIVE TOXICITY	: N/A

### SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

IN ALL CASES, SEEK MEDICAL ATTENTION IMMEDIATELY

EYE CONTACT: FLUSH EYES WITH WATER FOR 30 MINUTES, HOLDING THE EYELIDS OPEN. A NEUTRAL SALINE SOLUTION MAY BE USED TO FLUSH CONTAMINATED EYES.

SKIN CONTACT: FLUSH WITH WATER FOR 30 MINUTES. REMOVE CONTAMINATED CLOTHING. COMPLETELY DECONTAMINATE CLOTHING AND ALL PROTECTIVE EQUIPMENT.

INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER OR MILK. 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.

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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.  
PUMP SPILLED PRODUCT INTO WASTE CONTAINER. CONTAIN LARGE SPILLS FOR LATER DISPOSAL.

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

HANDLING & STORAGE : STORE IN CLOSED CONTAINERS IN DRY, COOL AREAS. DO NOT STORE NEAR ACIDS.

SECTION IX - TRANSPORT AND REGULATORY INFORMATION

TDG REGULATION : SODIUM HYDROXIDE SOLUTION  
CLASS 8, PIN #1824, PG II

WHMIS CLASSIFICATION : CLASS E

PREPARED BY: TECHNICAL SERVICES DEPARTMENT  
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