

# MATERIAL SAFETY DATA SHEET

## SECTION I PRODUCT IDENTIFICATION

MANUFACTURER:.. SUPPLIER:

Multi-Blend Ltd  
2720 Slough Street  
Mississauga  
Ontario L4T 1G3

EMERGENCY TEL: 613-996-6666

PRODUCT NAME: **DELIMING SOLUTION**

CHEMICAL NAME: NA

CHEMICAL FAMILY: HYDROCHLORIC ACID

PRODUCT USE: DELIMING,

## SECTION II HAZARDOUS INGREDIENTS

HAZARDOUS- INGREDIENTS	APPROX- CONC.	CAS NO.	LD(50) (RAT ORAL)	LC 50 Inhalation rat
HYDROCHLORIC ACID	10-30	7647-01-0	900 mg/Kg	3124 ppm/1 Hr

## SECTION III PHYSICAL DATA

PHYSICAL STATE.....LIQUID  
ODOUR AND APPEARANCE.... PUNGENT ODOUR, CLEAR or GREEN LIQUID  
ODOUR THRESHOLD.....ND  
SPECIFIC GRAVITY..... 1.09 to 1.14 (Water = 1)  
VAPOUR PRESSURE.....NE  
VAPOUR DENSITY(air=1)....NE  
EVAPORATION RATE.....>1  
SOLUBILITY IN WATER.....COMPLETE  
BOILING POINT.....100 DEG.. C  
pH.....< 1  
COEFF. WATER/OIL DISTR....NA

## SECTION IV FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY.....NOT FLAMMABLE  
EXTINGUISHING MEDIA..... SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam  
SPECIAL PROCEDURES.....FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS  
FLASH POINT (DEG.)C.....NONE  
HAZARDOUS COMBUSTION PRODUCTS.. Hydrogen chloride gas.  
UPPER FLAMMABLE LIMIT.....NA  
LOWER FLAMMABLE LIMIT.....NA  
AUTO IGNITION TEMP.....NA  
EXPLOSION DATA.....NA  
SENSITIVITY TO STATIC CHARGE...NA

## SECTION V REACTIVITY DATA

CHEMICAL STABILITY.....STABLE  
CONDITIONS TO AVOID.....EXCESSIVE HEAT, SPARKS AND OPEN FLAME  
INCOMPATIBLE SUBSTANCES.....ALKALIES, COMBUSTIBLE MATERIALS,  
OXIDIZING AGENTS, REDUCING MATERIALS, CYANIDES, SULFIDES, FORMALDEHYDE.  
HAZARDOUS DECOMPOSITION.....HYDROGEN GAS  
HAZARDOUS POLYMERIZATION.....WILL NOT OCCUR

## SECTION VI TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY  
SKIN CONTACT.....YES SKIN ABSORPTION..YES  
EYE CONTACT.....YES INHALATION.....YES  
INGESTION.....YES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL: SKIN: MAY CAUSE SEVERE CHEMICAL BURN AND OR DERMATITIS. EYE CONTACT: CONTACT WILL CAUSE SEVERE IRRITATION, PAIN, WITH CORNEAL INJURY, WHICH MAY RESULT IN PERMANENT EYE DAMAGE, BLINDNESS AND IMPAIRMENT OF VISION. INHALATION: DIRECT AND REPEATED BREATHING OF VAPOURS MAY CAUSE SEVERE IRRITATION AND INJURY TO THE UPPER RESPIRATORY TRACT AND LUNGS, EVEN DEATH. INGESTION: WILL CAUSE BURNS OF MOUTH AND OESOPHAGUS AND GASTROINTESTINAL IRRITATION.

EFFECTS OF CHRONIC EXPOSURE: SEE ABOVE. MAY ALSO CAUSE

EROSION OF TEETH, BLEEDING AND ULCERATION OF NOSE, MOUTH AND GUMS.

EXPOSURE LIMITS.....SEE SECTION II.

ACGIH TLV AND OSHA PEL ARE 5 ppm CEILING.

IRRITANCY OF MATERIAL.....CORROSIVE TO EYES AND SKIN

SENSITIZATION TO MATERIAL.....SKIN & MUCCOUS MEMBRANES

CARCINOGENICITY.....ND REPRODUCTIVE TOXICITY.....ND

TERATOGENICITY.....ND MUTAGENICITY.....ND

SYNERGISTIC PRODUCTS.....ND

## SECTION VII PREVENTIVE MEASURES

HAND PROTECTION.....PVC OR RUBBER  
EYE PROTECTION.....FACE SHIELD IF CONTACT POSSIBLE  
RESPIRATORY PROTECTION.....NORMAL VENTILATION ADEQUATE OTHERWISE NIOSH APPROVED RESPIRATOR FOR ORGANIC ACIDS.  
FOOT WEAR.....RUBBER OR SIMILAR  
CLOTHING.....RUBBER OR NEOPRENE TO PROTECT REGULAR CLOTHING  
ENGINEERING CONTROLS.....LOCAL EXHAUST ADEQUATE, MECHANICAL VENTILATION REQUIRED IF WORKING WITH LARGE QUANTITIES IN A CONFINED SPACE.  
LEAK AND SPILL PROCEDURE.....WEAR APPROPRIATE CLOTHING, VENTILATE AREA. SMALL SPILLS CAN BE NEUTRALIZED WITH LARGE AMOUNTS OF WATER AND FLUSHED. LARGER SPILLS SHOULD BE CONTAINED AND PICKED UP WITH INERT ABSORBENT MATERIAL AND TRANSFERRED TO RECOVERY CONTAINER. NEUTRALIZE REMAINDER WITH SODA ASH.

WASTE DISPOSAL.....IN ACCORDANCE WITH MUNICIPAL AND PROVINCIAL REGULATIONS  
HANDLING PROCEDURES AND EQUIPMENT..AVOID SKIN AND EYE CONTACT  
STORAGE REQUIREMENTS.....0-40 deg.. C KEEP FROM FREEZING, KEEP CONTAINER SEALED AND AWAY FROM HEAT, OPEN FLAMES AND INCOMPATIBLE MATERIALS.

## SECTION VIII FIRST AID MEASURES

PROCEDURES: EYES: IMMEDIATELY WASH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: IMMEDIATELY FLUSH AREA WITH COPIOUS AMOUNTS OF WATER THEN WASH WITH SOAP OR MILDLY ALKALINE SOLUTION SUCH AS 2.5% SODIUM BICARBONATE SOLUTION. IF REDDENING OR IRRITATION PERSISTS SEEK MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE AMOUNTS OF MILK IF AVAILABLE OR WATER. ANY KIND OF ANT-ACID TABLETS OR POWDER SHOULD BE TAKEN. SEEK MEDICAL ATTENTION IMMEDIATELY.

## ADDITIONAL INFORMATION

WHMIS CLASSIFICATION...CLASS E, CLASS D DIV 1A  
TDG CLASSIFICATION.....CLASS 8  
SHIPPING NAME HYDROCHLORIC ACID  
PIN.....UN 1789 PACKING GROUP.....II  
HAZARD RATING: HEALTH: 3 FIRE: 0 REACTIVITY :3 SPECIAL:  
HAZARD RATING SCALE: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE.

NA=NOT APPLICABLE, ND=NO DATA AVAILABLE, NE=NOT ESTABLISHED, NR NOT REGULATED.

PREPARED BY: LAB GROUP DATE: August 1, 2008  
Tel: 905-678-9559

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