

# MATERIAL SAFETY DATA SHEET

## SECTION I PRODUCT IDENTIFICATION

MANUFACTURER: SUPPLIER:  
MULTI-BLEND LTD.  
2720 SLOUGH STREET  
MISSISSAUGA  
ONTARIO L4T 1G3  
EMERGENCY - CANUTEC: 613-996-6666  
PRODUCT NAME: **FLOW AWAY**  
PRODUCT USE: DRAIN OPENER

## SECTION II HAZARDOUS INGREDIENTS

HAZARDOUS- INGREDIENTS	APPROX- CONC.	CAS NO.	LD(50) (RAT ORAL)	LC(50) Inhalation Rat
SULPHURIC ACID	60-100	7664-93-9	2140 mg/Kg	510 mg/M3 FOR 2 HOURS

## SECTION III PHYSICAL DATA

PHYSICAL STATE.....LIQUID  
ODOUR AND APPEARANCE.....CLEAR HEAVY LIQUID WITH SHARP SO<sub>2</sub> ODOUR  
ODOUR THRESHOLD.....NOT APPLICABLE  
SPECIFIC GRAVITY.....1.84 AT 15 DEG C  
VAPOUR PRESSURE.....AT 40 DEG C, 0.0016 MMHG  
VAPOUR DENSITY (AIR=1).....NO DATA NOT VOLATILE AT  
EVAPORATION RATE.....NONE  
SOLUBILITY IN WATER.....INFINITE IN WATER  
BOILING POINT.....276 DEG C  
PH.....0.3  
COEFF. WATER/OIL DISTR.....NOT AVAILABLE

## SECTION IV FIRE AND EXPLOSION DATA

FLAMMABILITY.....NO  
EXTINGUISHING MEDIA.....DRY CHEMICAL  
HAZARDOUS COMBUSTION PRODUCTS.....TOXIC GASES AND VAPOURS SUCH AS  
SULPHUR DIOXIDE, SULPHURIC ACID VAPOURS, SULPHUR TRIOXIDE.  
SPECIAL PROCEDURES.....WEAR POSITIVE PRESSURE SELF CONTAINED  
BREATHING APPARATUS  
FLASH POINT (DEG)C.....NOT APPLICABLE  
UPPER FLAMMABLE LIMIT.....NONE  
LOWER FLAMMABLE LIMIT.....NONE  
AUTO IGNITION TEMP.....NOT COMBUSTIBLE  
EXPLOSION DATA.....NONE  
SENSITIVITY TO STATIC CHARGE.....NONE

## SECTION V REACTIVITY DATA

CHEMICAL STABILITY.....STABLE UNDER NORMAL CONDITIONS  
CONDITIONS TO AVOID.....TEMPERATURES, WHICH MAY AFFECT THE CONTAINERS.  
CONTACT WITH WATER GENERATES EXTREME HEAT  
INCOMPATIBLE SUBSTANCES.....CONTACT WITH ORGANIC MATERIALS(SUCH AS  
CHLORATES, CARBIDES, FULMINATES AND PICRATES) MAY CAUSE FIRE AND  
EXPLOSIONS. CONTACT OF ACID WITH METALS MAY FORM FLAMMABLE HYDROGEN  
GAS. HYDROGEN GAS CAN ACCUMULATE TO EXPLOSIVE CONCENTRATIONS IN  
CONFINED SPACES.  
HAZARDOUS DECOMPOSITION.....TOXIC GASES AND VAPOURS (EG. SULPHUR  
DIOXIDE, SULPHURIC ACID VAPOURS, SULPHUR TRIOXIDE) MAY BE RELEASED ON  
DECOMPOSITION.  
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:  
A DILUTE SOLUTION IS AN IRRITANT TO SKIN AND MUCOUS MEMBRANES.  
EFFECTS OF CHRONIC EXPOSURE:  
SKIN CONTACT: SEVERE SKIN BURNS. EYE CONTACT: CORNEAL DAMAGE TO EYES,  
WHICH MAY BE PERMANENT AND EVEN CAUSE BLINDNESS. INGESTION: CAUSES  
SEVERE BURNING IN THE MOUTH, THROAT AND ABDOMEN. VOMITING, DIARRHOEA  
AND PERFORATION OF THE OESOPHAGUS AND STOMACH LINING MAY OCCUR.  
INHALATION: MAY CAUSE INCREASED PULMONARY RESISTANCE, TRANSIENT  
COUGH AND BRONCHO CONSTRICTION. SEVERE OVEREXPOSURE MAY RESULT IN  
LUNG COLLAPSE AND PULMONARY EDEMA, WHICH CAN BE FATAL. PROLONGED  
OR REPEATED EXPOSURE MAY RESULT IN IMPAIRED LUNG FUNCTION AND  
POSSIBLE DISCOLOURATION AND EROSION OF TEETH.

EXPOSURE LIMITS.....NO DATA  
IRRITANCY OF MATERIAL.....CORROSIVE EFFECTS OF SKIN AND EYES MAY BE  
DELAYED AND DAMAGE MAY OCCUR WITHOUT THE SENSATION AND ONSET OF PAIN.

STRICT ADHERENCE OF FIRST AID MEASURES FOLLOWING ANY EXPOSURE IS  
ESSENTIAL.  
SENSITIZATION TO MATERIAL.....SERIOUS  
CARCINOGENICITY.....NOT AVAILABLE  
REPRODUCTIVE TOXICITY.....NOT AVAILABLE  
TERATOGENICITY.....NOT AVAILABLE  
MUTAGENICITY.....NOT AVAILABLE  
SYNERGISTIC PRODUCTS.....NOT AVAILABLE

## SECTION VII PREVENTIVE MEASURES

HAND PROTECTION.....GLOVES: IMPERVIOUS (I.E. NEOPRENE, PVC)  
EYE PROTECTION: TIGHT FITTING CHEMICAL GOGGLES AND FACE SHIELD.  
RESPIRATORY PROTECTION.....AN APPROVED AIR PURIFYING RESPIRATOR  
EQUIPPED WITH ACID GAS/FUME, DUST, MIST CARTRIDGES FOR CONCENTRATIONS UN  
TO 10 MG/M3.AN AIR SUPPLIED RESPIRATOR IF CONCENTRATIONS ARE HIGHER OR  
UNKNOWN.  
FOOT WEAR.....SAFETY SHOES  
CLOTHING.....RUBBER APRON (ACID RESISTANT)  
ENGINEERING CONTROLS.....ADEQUATE VENTILATION TO MAINTAIN VAPOURS  
BELOW EXPOSURE GUIDELINES.  
LEAK AND SPILL PROCEDURE.....REMOVE ALL SOURCES OF IGNITION. VENTILATE  
AREA. DIKE WITH INERT MATERIAL (SAND, EARTH ETC.).COLLECT INTO CONTAINERS  
(PLASTIC) FOR RECLAIM OR DISPOSAL. USE LIME, LIMESTONE, SODA ASH (SODIUM  
CARBONATE),SODIUM BICARBONATE, DILUTE SODIUM HYDROXIDE, DILUTE AQUA  
AMMONIA TO NEUTRALIZE. SODA ASH WILL RELEASE CO<sub>2</sub>.  
WASTE DISPOSAL.....DISPOSAL MUST MEET ALL LOCAL PROVINCIAL AND  
FEDERAL REGULATIONS.  
HANDLING PROCEDURES AND EQUIPMENT.. NEVER ADD WATER TO ACID DUE TO  
POSSIBLE VIOLENT CHEMICAL REACTION, HEAT AND SPLASHBACK.  
STORAGE REQUIREMENTS.....0-45 DEG C. DO NOT STORE NEAR OR WITH  
COMBUSTIBLE MATERIAL OR HIGH ALKALI SUBSTANCES.

## SECTION VIII FIRST AID MEASURES

EYES: IMMEDIATELY FLUSH WITH RUNNING WATER FOR A MINIMUM OF 20 MINUTES.  
HOLD EYELIDS OPEN DURING FLUSHING. IF IRRITATION PERSISTS REPEAT FLUSHING.  
OBTAIN MEDICAL ATTENTION IMMEDIATELY. DO NOT TRANSPORT VICTIM UNTIL THE  
RECOMMENDED FLUSHING PERIOD IS COMPLETED, UNLESS FLUSHING CAN BE  
CONTINUED DURING TRANSPORT.  
SKIN: FLUSH SKIN WITH PLENTY OF WATER FOR 20 MINUTES. START FLUSHING WHILE  
REMOVING CONTAMINATED CLOTHING SIMULTANEOUSLY. IF IRRITATION PERSISTS  
REPEAT FLUSHING. OBTAIN MEDICAL ATTENTION IMMEDIATELY. DO NOT TRANSPORT  
VICTIM UNTIL THE RECOMMENDED FLUSHING IS COMPLETED UNLESS FLUSHING CAN  
BE CONTINUED DURING TRANSPORTATION. DO NOT TRY AND NEUTRALIZE WITH  
ALKALINE SOLUTION.

INGESTION: IF VICTIM IS ALERT AND NOT CONVULSING GIVE PLENTY OF WATER TO  
DILUTE MATERIAL. IF SPONTANEOUS VOMITING OCCURS HAVE VICTIM LEAN  
FORWARD HEAD DOWN TO AVOID BREATHING IN OF VOMITUS. RINSE MOUTH AND  
ADMINISTER MORE WATER. IMMEDIATELY CONTACT LOCAL POISON CONTROL  
CENTRE. DO NOT INDUCE VOMITING EXCEPT UNDER SUPERVISION OF A PHYSICIAN OR  
A POISON CONTROL CENTRE. IMMEDIATELY TRANSPORT VICTIM TO AN EMERGENCY  
FACILITY.

INHALATION: MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL BREATHING ONLY IF BREATHING  
HAS STOPPED. GIVE CPR (CARDIO PULMONARY RESUSCITATION) IF THERE IS NO  
BREATHING AND NO PULSE. OBTAIN MEDICAL ATTENTION IMMEDIATELY.  
NOTES TO PHYSICIAN: DUE TO THE CORROSIVE NATURE OF THIS MATERIAL, SWALLOWING  
MAY RESULT IN SEVERE ULCERATION, INFLAMMATION AND POSSIBLE PERFORATION OF THE  
UPPER ALIMENTARY TRACT, WITH HAEMORRHAGE AND POSSIBLE FLUID LOSS. ASPIRATION  
OF THIS PRODUCT DURING INDUCED EMESIS CAN RESULT IN SEVERE LUNG INJURY.  
EVACUATION OF STOMACH CONTENTS MUST BE DONE BY MEANS LEAST LIKELY TO CAUSE  
ASPIRATION SUCH AS GASTRIC LAVAGE AFTER ENDO TRACHEAL INTUBATION. CONTACT A  
POISON CONTROL CENTRE FOR ADDITIONAL TREATMENT INFORMATION. THE APPLICATION  
OF ICE TO SKIN BURNS WILL REDUCE SCARRING.

## ADDITIONAL INFORMATION

WHMIS CLASSIFICATION: CLASS E CLASS D DIV 2 B  
TDG CLASSIFICATION: CLASS 8 SHIPPING NAME: SULPHURIC ACID  
PIN.....UN1830 PACKING GROUP.....II  
HAZARD RATING: HEALTH:4 FIRE:0 REACTIVITY: 3 SPECIAL:0  
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  
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