

# MATERIAL SAFETY DATA SHEET

## SECTION I PRODUCT IDENTIFICATION

**MANUFACTURER:** SUPPLIER:  
MULTI-BLEND LTD  
2720 SLOUGH ST.  
MISSISSAUGA ONT. L4T 1G3  
EMERGENCY - CANUTEC: 613-996-6666

**PRODUCT NAME:** **E-D 9**  
**CHEMICAL NAME:** NA  
**CHEMICAL FAMILY:** ALKALIES  
**PRODUCT USE:** METAL & ENGINE CLEANING/DEGREASING

## SECTION II HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	APPROX- CONC.	CAS #	LD(50) (RAT ORAL)	LC(50) (RAT)
TETRAPOTASSIUM PYROPHOSPHATE	1-5	7320-34-5	2980 MG/KG	ND
ETHYLENEDIAMINE-TETRAACETIC ACID	1-5	64-02-8	3000 MG/KG	ND

## SECTION III PHYSICAL DATA

**PHYSICAL STATE:** LIQUID  
**ODOUR AND APPEARANCE:** SWEET ODOUR, AMBER LIQUID  
**ODOUR THRESHOLD:**ND **SPECIFIC GRAVITY:** 1.0  
**VAPOUR PRESSURE:**(MM HG) ND  
**VAPOUR DENSITY (AIR=1) :** ND  
**EVAPORATION RATE:**:(WATER - 1) : 1  
**SOLUBILITY IN WATER:**:(20 DEGREES C) COMPLETE  
**BOILING POINT:**:(C) 100  
**Ph.:** 12.5 - 13.0  
**COEFF. WATER/OIL DISTR.:**ND

## SECTION IV FIRE AND EXPLOSION DATA

**CONDITIONS OF FLAMMABILITY:**NON FLAMMABLE  
**EXTINGUISHING MEDIA:** AS FOR SURROUNDING MATERIALS  
**HAZARDOUS COMBUSTION PRODUCTS:**CARBON DIOXIDE, CARBON MONOXIDE, NITROUS OXIDE, HYDROGEN CHLORIDE , METHYL CHLORIDE  
**SPECIAL PROCEDURES:** WATER OR FOAM MAY CAUSE FROTHING IF SPRAYED ON HOT BURNING LIQUID. FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL BODY PROTECTION  
**FLASH POINT (DEG)C.** ND  
**UPPER FLAMMABLE LIMIT.** ND  
**LOWER FLAMMABLE LIMIT:** ND  
**AUTO IGNITION TEMP:**.....ND  
**EXPLOSION DATA :** ND  
**SENSITIVITY TO STATIC CHARGE:**ND

## SECTION V REACTIVITY DATA

**CHEMICAL STABILITY:**.....:STABLE  
**CONDITIONS TO AVOID:**.....:EXTREME HEAT AND COLD  
**INCOMPATIBLE SUBSTANCES:**.....:STRONG ACIDS, STRONG OXIDIZING AGENTS  
**HAZARDOUS DECOMPOSITION:**.....:THERMAL DECOMPOSITION WILL GIVE CARBON DIOXIDE, CARBON MONOXIDE, NITROUS OXIDES, HYDROGEN CHLORIDE AND METHYL CHLORIDE WHEN HEATED  
**HAZARDOUS POLYMERIZATION:**.....:ND

## 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 CONTACT MAY CAUSE SEVERE IRRITATION OF MUCOUS MEMBRANES, ULCERATION OF EYES, PERMANENT VISUAL DAMAGE MAY OCCUR.**

**SKIN CONTACT MAY CAUSE BURNS OF SKIN AND UNDERLYING TISSUE**  
**INHALATION CAN CAUSE IRRITATION OF EYES NOSE AND THROAT AND RESPIRATORY TRACT**  
**INGESTION MAY CAUSE IRRITATION OF LIPS MOUTH AND THROAT, RESPIRATORY TRACT AND ESOPHAGUS ,NAUSEA VOMITING ABDOMINAL; PAIN AND DIARRHOEA, EDEMA OF LARYNX AND SUBSEQUENT SUFFOCATION, PERFORATION OF GASTROINTESTINAL TRACT.**

**EFFECTS OF CHRONIC EXPOSURE:** NE  
**IRRITANCY OF MATERIAL:**: SLIGHT **SENSITIZATION:** ND  
**CARCINOGENICITY:**: NONE KNOWN  
**REPRODUCTIVE TOXICITY :** ND  
**TERATOGENICITY:**: ND **MUTAGENICITY :** ND  
**SYNERGISTIC PRODUCTS:**: NONE

## SECTION VII PREVENTIVE MEASURES

**HAND PROTECTION:**.....GLOVES RUBBER OR VINYL  
**EYE PROTECTION:**.....CHEMICAL GOGGLES OR FACE SHIELD  
**RESPIRATORY PROTECTION:**.....WORN BY PERSON SENSITIVE TO FUMES  
**FOOT WEAR:**.....RUBBER CLOTHING: IMPERVIOUS  
**ENGINEERING CONTROLS:**.....LOCAL EXHAUST  
**LEAK AND SPILL PROCEDURE:**.....DIKE AREA AND CONTAIN SPILL. PUMP TO CONTAINER FOR RECOVERY OR DISPOSAL. NEUTRALISE REMAINDER WITH MILD ACID AND FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER IF LOCAL GOVERNMENTS ALLOW OR PICK UP WITH WET VACUUM.  
**WASTE DISPOSAL:**.....DISPOSE IN ACCORDANCE WITH LOCAL AND MUNICIPAL AUTHORITIES.  
**HANDLING PROCEDURES AND EQUIPMENT:**.....AVOID CONTACT WITH EYES SKIN OR CLOTHES. WASH THOROUGHLY AFTER HANDLING  
**STORAGE REQUIREMENTS:**.....STORE IN A COOL DRY AREA AWAY FROM ACIDS AND INCOMPATIBLES. DO NOT FREEZE

## SECTION VIII FIRST AID MEASURES

**PROCEDURES:**  
**EYES:** FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION  
**SKIN:** REMOVE CONTAMINATED CLOTHING AND WASH FOR 15 MINUTES WITH RUNNING WATER. SEEK MEDICAL ATTENTION. DRY-CLEAN CLOTHES BEFORE REUSE.  
**INHALATION:** REMOVE TO FRESH AIR GET MEDICAL ATTENTION  
**INGESTION:** IF SWALLOWED **DO NOT INDUCE VOMITING**. GIVE 1-2 GLASSES OF WATER OR CITRIC JUICES. IF VOMITING OCCURS GIVE FURTHER FLUIDS AND SEEK MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PATIENT

## ADDITIONAL INFORMATION

**WHMIS CLASSIFICATION:**...CLASS E CLASS D DIV 2B  
**TDG CLASSIFICATION:**.....NOT REGULATED  
**SHIPPING NAME:**  
**PIN:**.....NR. **PACKING GROUP:**.....NR  
**HEALTH:** 1 **FIRE:** 0 **REACTIVITY:**12 **SPECIAL:**NONE

**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:** May 15, 2011  
**Tel:** 905-678-9559

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