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# MATERIAL SAFETY DATA SHEET

## DETERGENT #1

### SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION	WHMIS CLASS D-2B
HMIS	HEALTH 1, FLAMMABILITY 1, REACTIVITY 1, PERSONAL PROTECTION B
CHEMICAL FORMULA	MIXTURE
MOLECULAR WEIGHT	NOT APPLICABLE

### SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENT	ALCOHOL ETHOXYLATE
APPROX. CONCENTRATION %	1-5
CAS	34398-01-1
EXPOSURE LIMITS	NOT AVAILABLE
LD50/LC50/SPECIES/ROUTE	ORAL (LD50) MG/KG: ACUTE: 5000 (RAT)
HAZARDOUS INGREDIENT	ETHYLENE GLYCOL MONOBUTYL ETHER.
APPROX. CONCENTRATION %	1-5
CAS	111-76-2
EXPOSURE LIMITS	TWA: 50 CEIL: 150 (PPM) TWA: 240 CEIL 720 (MG/M <sup>3</sup> )
LD50/LC50/SPECIES/ROUTE	ORAL (LD50): ACUTE: 470 MG/KG (RAT) DERMAL (LD50) ACUTE 220 MG/KG (RABBIT)

### SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE	LIQUID
ODOUR AND APPEARANCE	MINT ODOUR, BLUE LIQUID
ODOUR THRESHOLD (PPM)	NOT AVAILABLE
SPECIFIC GRAVITY	1 (WATER =1)
VAPOUR PRESSURE (MM)	NOT DETERMINED
VAPOUR DENSITY (AIR =1)	THE HIGHEST KNOWN VALUE IS 4.1 (ETHYLENE GLYCOL MONOBUTYL ETHER)
EVAPORATION RATE	SIMILAR TO WATER
BOILING POINT (°C)	100°C
SOLUBILITY IN WATER (20°C)	SOLUBLE
PH	9-10

### SECTION 4 FIRE AND EXPLOSION DATA

FLAMMABILITY	NON-FLAMMABLE
MEANS OF EXTINCTION	USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING MATERIALS.
SPECIAL PROCEDURES	NOT AVAILABLE
FLASHPOINT (°C) AND METHOD	NOT APPLICABLE
UPPER EXPLOSION LIMIT (% BY VOL.)	NOT APPLICABLE
LOWER EXPLOSION LIMIT (% BY VOL.)	NOT APPLICABLE
HAZARDOUS COMBUSTION PRODUCTS	THESE PRODUCTS ARE CARBON OXIDES (CO, CO <sub>2</sub> )
EXPLOSION SENSITIVITY TO CHEM. IMPACT	NOT AVAILABLE

**SECTION 5 REACTIVITY DATA**

CHEMICAL STABILITY	STABLE
INCOMPATIBILITY? TO WHAT?	REACTIVE WITH ACIDS.
HAZARDOUS DECOMPOSITION PRODUCTS	NOT AVAILABLE

**SECTION 6 TOXICOLOGICAL PROPERTIES**

ROUTE OF ENTRY SKIN CONTACT Y/N	Y
ROUTE OF ENTRY EYE CONTACT Y/N	Y
ROUTE OF ENTRY INHALATION Y/N	Y
ROUTE OF ENTRY INGESTION Y/N	Y
EFFECTS OF ACUTE EXPOSURE	INHALATION OF THE SPRAY MIST MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT. HARMFUL OR FATAL IF SWALLOWED. SLIGHTLY DANGEROUS IN CASE OF SKIN CONTACT (IRRITANT), OF EYE CONTACT (IRRITANT).
EFFECTS OF CHRONIC EXPOSURE	PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING AND DERMATITIS.
SYNERGISTIC MATERIALS	NOT AVAILABLE
CARCINOGENICITY Y/N	N
REPRODUCTIVE EFFECTS Y/N	N
TERATOGENICITY Y/N	N
MUTAGENICITY Y/N	N

**SECTION 7 PREVENTIVE MEASURES**

GLOVES	IMPERVIOUS GLOVES
EYEWEAR	SAFETY GLASSES
FOOTWEAR	AS REQUIRED BY EMPLOYER CODE
CLOTHING	AS REQUIRED BY EMPLOYER CODE
ENGINEERING CONTROLS	GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.
LEAK AND SPILL PROCEDURE	ABSORB WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. IF NECESSARY, DILUTE WITH ACETIC ACID. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND DISPOSE OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.
WASTE DISPOSAL	CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.
STORAGE REQUIREMENTS	STORE IN ORIGINAL CONTAINER AND PROTECT FROM FREEZING.

**SECTION 8 FIRST AID MEASURES**

SKIN	GENTLY AND THOROUGHLY WASH THE CONTAMINATED SKIN WITH RUNNING WATER AND A NON-ABRASIVE SOAP. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSING.
EYE	CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. COLD WATER MAY BE USED. DO NOT USE AN EYE OINTMENT. SEEK MEDICAL ATTENTION.
INHALATION	REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, CALL A PHYSICIAN.

INGESTION

DO NOT INDUCE VOMITING. HAVE CONSCIOUS  
PERSON DRINK SEVERAL GLASSES OF WATER OR  
MILK. SEEK MEDICAL ATTENTION IMMEDIATELY.

*VALIDATED BY YORK CHEMICAL TECHNOLOGIES INC  
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