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MATERIAL SAFETY DATA SHEET

PENETRATOR

SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION
HMIS

WHMIS CLASS D-2B
HEALTH 1, FLAMMABILITY 0, REACTIVITY 1,
PERSONAL PROTECTION B
MIXTURE
NOT APPLICABLE

CHEMICAL FORMULA
MOLECULAR WEIGHT

SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENT
APPROX. CONCENTRATION %
CAS
EXPOSURE LIMITS
LD50/LC50/SPECIES/ROUTE

ALCOHOL ETHOXYLATE
1-5
34398-01-1
NOT AVAILABLE
ORAL (LD50) MG/KG: ACUTE: 5000 (RAT)

HAZARDOUS INGREDIENT
APPROX. CONCENTRATION %
CAS
EXPOSURE LIMITS
LD50/LC50/SPECIES/ROUTE

DIPROPYLENE GLYCOL MONOMETHYL ETHER
1-5
34590-94-8
TWA: 50 CEIL: 150 (PPM) TWA: 240 CEIL 720 (MG/M³)
ORAL (LD50): ACUTE: 470 MG/KG (RAT) DERMAL
(LD50) ACUTE 220 MG/KG (RABBIT)

SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE
ODOUR AND APPEARANCE
ODOUR THRESHOLD (PPM)
SPECIFIC GRAVITY
VAPOUR PRESSURE (MM)
VAPOUR DENSITY (AIR =1)
EVAPORATION RATE
BOILING POINT (°C)
SOLUBILITY IN WATER (20°C)
PH

LIQUID
FRESH ODOUR, RED LIQUID
NOT AVAILABLE
1 (WATER =1)
NOT DETERMINED
NOT DETERMINED
SIMILAR TO WATER
100°C
SOLUBLE
9-10

SECTION 4 FIRE AND EXPLOSION DATA

FLAMMABILITY
MEANS OF EXTINCTION

NON-FLAMMABLE
USE EXTINGUISHING MEDIA SUITABLE FOR
SURROUNDING MATERIALS.

SPECIAL PROCEDURES
FLASHPOINT (°C) AND METHOD
UPPER EXPLOSION LIMIT (% BY VOL.)
LOWER EXPLOSION LIMIT (% BY VOL.)
HAZARDOUS COMBUSTION PRODUCTS
EXPLOSION SENSITIVITY TO CHEM. IMPACT

NOT AVAILABLE
NOT APPLICABLE
NOT APPLICABLE
NOT APPLICABLE
THESE PRODUCTS ARE CARBON OXIDES (CO, CO₂)
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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