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# MATERIAL SAFETY DATA SHEET

## SMOKE REMOVER

### SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION  
HMIS

WHMIS CLASS D-1B, E  
HEALTH 1, FLAMMABILITY 0, REACTIVITY 2,  
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

CAUSTIC POTASH  
1-10  
1310-58-3  
NOT AVAILABLE  
ORAL (LD50) MG/KG: ACUTE: 365 (RAT)

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER  
1-10  
34590-94-8  
TWA: 50 CEIL: 150 (PPM) TWA: 240 CEIL 720 (MG/M<sup>3</sup>)  
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  
MILD ODOUR, CLEAR LIQUID  
NOT AVAILABLE  
1 (WATER =1)  
NOT DETERMINED  
NOT DETERMINED  
SIMILAR TO WATER  
100°C  
SOLUBLE  
12-14

### SECTION 4 FIRE AND EXPLOSION DATA

FLAMMABILITY  
MEANS OF EXTINCTION  
SPECIAL PROCEDURES

NON-FLAMMABLE  
USE EXTINGUISHING MEDIA SUITABLE FOR  
SURROUNDING MATERIALS.  
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.

INHALATION

COLD WATER MAY BE USED. DO NOT USE AN EYE OINTMENT. SEEK MEDICAL ATTENTION. 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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