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MATERIAL SAFETY DATA SHEET

THERMAL 100

SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION	WHMIS CLASS B3, D-2B
HMIS	HEALTH 2, FLAMMABILITY 3, REACTIVITY 1, PERSONAL PROTECTION B
CHEMICAL FORMULA	MIXTURE
MOLECULAR WEIGHT	NOT APPLICABLE
MATERIAL USE	THERMAL FOGGING SOLUTION

SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENT	ISOPARAFFIN HYDROCARBON
APPROX. CONCENTRATION %	60-100
CAS	NOT AVAILABLE
EXPOSURE LIMITS	NOT AVAILABLE
LD50/LC50/SPECIES/ROUTE	NOT AVAILABLE
HAZARDOUS INGREDIENT	D-LIMONENE
APPROX. CONCENTRATION %	10-40
CAS	5989-27-5
EXPOSURE LIMITS	NOT AVAILABLE
LD50/LC50/SPECIES/ROUTE	ORAL (LD50) MG/KG: ACUTE: 4400 (RAT)

SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE	LIQUID
ODOUR AND APPEARANCE	CITRUS ODOUR, CLEAR LIQUID
ODOUR THRESHOLD (PPM)	NOT AVAILABLE
SPECIFIC GRAVITY	0.78
VAPOUR PRESSURE (MM)	NOT AVAILABLE
VAPOUR DENSITY (AIR =1)	NOT AVAILABLE
EVAPORATION RATE	NOT DETERMINED
BOILING POINT (°C)	180°C.
FREEZING POINT (°C)	NOT DETERMINED
SOLUBILITY IN WATER (20°C)	MISCIBLE IN WATER
% VOLATILE (BY VOL.)	>85
PH	NOT AVAILABLE

SECTION 4 FIRE AND EXPLOSION DATA

FLAMMABILITY	COMBUSTIBLE
MEANS OF EXTINCTION	SMALL FIRE: USE DRY CHEMICALS, CO2, WATER SPRAY OR FOAM. LARGE FIRE: USE WATER SPRAY, FOG OR FOAM. DO NOT USE WATER JET.

SPECIAL PROCEDURES	NOT AVAILABLE
FLASHPOINT (°C) AND METHOD	THE LOWEST KNOWN VALUE IS CLOSED CUP: 46°C (114.9°F). (TAGLIABUE). (D-LIMONENE)
UPPER EXPLOSION LIMIT (% BY VOL.)	NOT AVAILABLE
LOWER EXPLOSION LIMIT (% BY VOL.)	NOT AVAILABLE
HAZARDOUS COMBUSTION PRODUCTS	THESE PRODUCTS ARE CARBON OXIDES (CO, CO ₂).

SECTION 5 REACTIVITY DATA

CHEMICAL STABILITY	STABLE
INCOMPATIBILITY? TO WHAT?	HIGHLY REACTIVE WITH OXIDIZING AGENTS, REDUCING AGENTS. VERY SLIGHTLY TO SLIGHTLY REACTIVE WITH ACIDS.
HAZARDOUS DECOMPOSITION PRODUCTS	THESE PRODUCTS ARE CARBON OXIDES (CO, CO ₂) AND OTHER IRRITATING GASES.

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	THIS PRODUCT MAY IRRITATE EYES AND SKIN UPON CONTACT. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING. SLIGHTLY DANGEROUS TO DANGEROUS IN CASE OF INGESTION OR INHALATION. VERY SLIGHTLY TO SLIGHTLY DANGEROUS IN CASE OF SKIN CONTACT (IRRITANT), OF EYE CONTACT (IRRITANT). NON-CORROSIVE FOR SKIN.	
EFFECTS OF CHRONIC EXPOSURE	PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING AND DERMATITIS. CAN BE ABSORBED THROUGH SKIN IN TOXIC AMOUNTS IF CONTACT IS REPEATED AND PROLONGED.	
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	DILUTE WITH WATER AND MOP UP, OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. COMBUSTIBLE LIQUID. KEEP AWAY FROM HEAT. KEEP AWAY FROM SOURCES OF IGNITION. STOP LEAK IF WITHOUT RISK. ABSORB WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. DO NOT TOUCH SPILLED MATERIAL. PREVENT ENTRY INTO SEWERS, BASEMENTS OR CONFINED AREAS; DIKE IF NEEDED. ELIMINATE ALL SOURCES OF IGNITION.
WASTE DISPOSAL	CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.
STORAGE REQUIREMENTS	COMBUSTIBLE MATERIALS SHOULD BE STORED AWAY FROM EXTREME HEAT AND AWAY FROM STRONG OXIDIZING AGENTS. KEEP CONTAINER TIGHTLY CLOSED IN A COOL, WELL-VENTILATED

PLACE. GROUND ALL EQUIPMENT CONTAINING MATERIAL. A REFRIGERATED ROOM WOULD BE PREFERABLE FOR MATERIALS WITH A FLASH POINT LOWER THAN 37.8°C (100°F).

SECTION 8 FIRST AID MEASURES

SKIN	REMOVE CONTAMINATED CLOTHES AS QUICKLY AS POSSIBLE, PROTECTING YOUR OWN HANDS AND BODY. PLACE THE VICTIM UNDER A DELUGE SHOWER. IF THE CHEMICAL TOUCHES THE VICTIM'S EXPOSED SKIN, SUCH AS THE HANDS: GENTLY AND THOROUGHLY WASH THE CONTAMINATED SKIN WITH RUNNING WATER AND NON-ABRASIVE SOAP. BE PARTICULARLY CAREFUL TO CLEAN FOLDS, CREVICES, CREASES AND GROIN. COLD WATER MAY BE USED. COVER THE IRRITATED SKIN WITH AN EMOLLIENT. 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 INGESTION	REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, CALL A PHYSICIAN. DO NOT INDUCE VOMITING. HAVE CONSCIOUS PERSON DRINK SEVERAL GLASSES OF WATER OR MILK. SEEK IMMEDIATE MEDICAL ATTENTION.

*VALIDATED BY YORK
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