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MATERIAL SAFETY DATA SHEET

POWERWISE

SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION
HMIS

WHMIS CLASS D-2B, E
HEALTH 1, FLAMMABILITY 0, REACTIVITY 1,
PERSONAL PROTECTION B
MICRO EMULSION
MIXTURE
NOT APPLICABLE
CLEANER DEGREASER

CHEMICAL FAMILY
CHEMICAL FORMULA
MOLECULAR WEIGHT
MATERIAL USE

SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

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

NONYL PHENOL ETHOXYLATE
1-5
7664-38-2
NOT AVAILABLE
ORAL (LD50) MG/KG: ACUTE: 2600 (RAT)

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

D'LIMONENE
1-10
5989-27-5
NOT AVAILABLE
ORAL (LD50) MG/KG: ACUTE: 4400 (RAT)

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER
1-10
34590-94-8
TWA: 100 CEIL: 150 (PPM) TWA: 600 CEIL: 900 (MG/M³)
ORAL (LD50) MG/KG: ACUTE: 5380 MG/KG (RAT)
DERMAL (LC50) PPM: ACUTE: 9510 MG/KG (RABBIT)

SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE
ODOUR AND APPEARANCE
SPECIFIC GRAVITY
VAPOUR PRESSURE (MM)
VAPOUR DENSITY (AIR =1)
EVAPORATION RATE
BOILING POINT (°C)
FREEZING POINT (°C)
SOLUBILITY IN WATER (20°C)
% VOLATILE (BY VOL.)
PH

LIQUID
LIME FRAGRANCE, GREEN LIQUID
1.02
WEIGHED AVERAGE: 0.65 MM OF HG (@ 20°C)
WEIGHTED AVERAGE: 4.92 (AIR=1)
SIMILAR TO WATER
WEIGHTED AVERAGE: 188.67°C. (371.6°F)
NOT DETERMINED
SOLUBLE
>80%
7

SECTION 4 FIRE AND EXPLOSION DATA

FLAMMABILITY	NOT FLAMMABLE
MEANS OF EXTINCTION	USE EXTINGUISHING MEDIA 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
AUTO-IGNITION TEMPERATURE (°C)	NOT APPLICABLE
HAZARDOUS COMBUSTION PRODUCTS	CO, CO ₂
EXPLOSION SENSITIVITY TO CHEM. IMPACT	NOT AVAILABLE

SECTION 5 REACTIVITY DATA

CHEMICAL STABILITY	STABLE
INCOMPATIBILITY? TO WHAT?	MAY BE REACTIVE WITH OXIDIZING AGENTS. SLIGHTLY REACTIVE TO REACTIVE WITH ACIDS. VERY SLIGHTLY TO SLIGHTLY REACTIVE WITH ORGANIC MATERIALS, METALS.
HAZARDOUS DECOMPOSITION PRODUCTS	NOT AVAILABLE

SECTION 6 TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY SKIN CONTACT Y/N	Y
ROUTE OF ENTRY SKIN ABSORPTION Y/N	N
ROUTE OF ENTRY EYE CONTACT Y/N	Y
ROUTE OF ENTRY INHALATION ACUTE Y/N	Y
ROUTE OF ENTRY INHALATION CHRONIC Y/N	N
ROUTE OF ENTRY INGESTION Y/N	Y
EFFECTS OF ACUTE EXPOSURE	DANGEROUS IN CASE OF EYE CONTACT (IRRITANT). VERY SLIGHTLY TO SLIGHTLY DANGEROUS IN CASE OF SKIN CONTACT (SENSITIZER). CORROSIVE TO SKIN AND EYES ON CONTACT. INHALATION OF THE SPRAY MIST MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT, CHARACTERIZED BY COUGHING, CHOKING OR SHORTNESS OF BREATH. THIS PRODUCT MAY IRRITATE EYES AND SKIN UPON CONTACT. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.
EFFECTS OF CHRONIC EXPOSURE	SLIGHTLY DANGEROUS TO DANGEROUS IN CASE OF SKIN CONTACT (IRRITANT), OF EYE CONTACT (IRRITANT). 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	PROVIDE EXHAUST VENTILATION OR OTHER

LEAK AND SPILL PROCEDURE

ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPOURS BELOW THEIR RESPECTIVE THRESHOLD LIMIT VALUE. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE PROXIMAL TO THE WORKSTATION LOCATION. ABSORB WITH DRY EARTH, SAND OR OTHER 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

RECYCLE IF POSSIBLE. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.

STORAGE REQUIREMENTS

KEEP CONTAINER TIGHTLY CLOSED. KEEP IN A COOL, WELL-VENTILATED PLACE.

SECTION 8 FIRST AID MEASURES

SKIN

AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER. GENTLY AND THOROUGHLY WASH THE CONTAMINATED SKIN WITH RUNNING WATER AND NON-ABRASIVE SOAP. BE PARTICULARLY CAREFUL TO CLEAN FOLDS, CREVICES AND GROIN. 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

REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, CALL A PHYSICIAN.

INGESTION

DO NOT INDUCE VOMITING. EXAMINE THE LIPS AND MOUTH TO ASCERTAIN WHETHER THE TISSUES ARE DAMAGED, A POSSIBLE INDICATION THAT THE TOXIC MATERIAL WAS INGESTED, THE ABSENCE OF SUCH SIGNS, HOWEVER, IS NO CONCLUSIVE. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. IF THE VICTIM IS NOT BREATHING, PERFORM MOUTH-TO-MOUTH RESUSCITATION. SEEK IMMEDIATE MEDICAL ATTENTION.

VALIDATED BY YORK CHEMICAL TECHNOLOGIES

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