

KEM CANADA MFG. 4 BLAIR DRIVE BRAMPTON, ONTARIO L6T 2H5 TEL# (905) 456-944 EMERGENCY # CANUTEC (613) 996-6666
"USE IN CASE OF CHEMICAL EMERGENCY ONLY"

W.H.M.I.S. CLASSIFICATION: A, D1B, D2A

TEL# (905) 456-9444 MATERIAL REFERENCE NO: 109121 SECTION I - MATERIAL IDENTIFICATION AND USE |MATERIAL NAME/I.D.: BRAKLEEN (AEROSOL) |CHEMICAL NAME: NOT APPLICABLE | CHEMICAL FAMILY: PRESSURIZED BLEND | ______ |CHEMICAL FORMULA: MIXTURE | MOLECULAR WEIGHT: NOT APPLICABLE | ISYNONYMS: NONE |MATERIAL USE: BRAKE PARTS CLEANER SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL _____ |TETRACHLOROETHYLENE|60.0-100.0 | 25 | 127-18-4 | >5000 MG/KG | |CARBON DIOXIDE | 1.0-5.0 | 5,000 | 124-38-9 | NOT | PROPELLANT | | AVAILABLE | SECTION III - PHYSICAL DATA FOR MATERIAL _____ |PHYSICAL STATE: AEROSOL |ODOUR AND APPEARANCE: CLEAR, COLOURLESS LIQUID; SOLVENT ODOUR. | ______ |ODOUR THRESHOLD (PPM) | SPECIFIC GRAVITY | VAPOUR PRESSURE (MM) | NOT AVAILABLE | (CONCENTRATE) 1.619 | NOT AVAILABLE(C) | ______ |VAPOUR DENSITY (AIR=1)| EVAPORATION RATE |SOLUBILITY IN WATER | > 1 | NOT AVAILABLE |(20@C) NEGLIGIBLE ______ | BOILING POINT (C) | FREEZING POINT (C) | TOTAL VOC % | (CONCENTRATE) 121 EST. | NOT AVAILABLE | 0 ______ |ph (10% SOLUTION) | DENSITY (G/ML) |COEF.OF WATER/OIL DISTR| | NOT APPLICABLE | NOT APPLICABLE | NOT AVAILABLE |



MATERIAL REFERENCE NO: 109121

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL
FLAMMABILITY: NON FLAMMABLE IF YES, UNDER WHICH CONDITIONS: NOT APPLICABLE
MEANS OF EXTINCTION: FOAM, DRY CHEMICAL, CO2.
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF CONTAINED BREATHING APPARATUS. USE SHIELDING TO PROTECT FROM VENTING, BURSTING OR RUPTURING CONTAINERS. USE WATER FOG TO COOL FIRE EXPOSED CONTAINERS.
FLASH POINT (C) AND METHOD: CONCENTRATE NONE TO BOILING (C) T.C.C. FLAME EXTENSION NON FLAMMABLE SPRAY
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, TRACE AMOUNTS OF PHOSGENE, CHLORINE
UPPER EXPLOSION LIMIT LOWER EXPLOSION LIMIT AUTOIGNITION TEMP(C) NOT AVAILABLE NOT AVAILABLE
EXPLOSION DATA SENSITIVITY RATE OF BURNING EXPLOSIVE POWER TO CHEMICAL IMPACT PRESSURIZED CONTAINER NOT AVAILABLE NOT AVAILABLE KEEP TEMP. BELOW 49C
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE
SECTION V - REACTIVITY DATA
CHEMICAL STABILITY: STABLE IF NO, UNDER WHICH CONDITIONS:
INCOMPATIBILITY TO OTHER SUBSTANCES: YES IF SO, WHICH ONES: STRONG OXIDIZING AGENTS, STRONG ALKALIES.
REACTIVITY AND UNDER WHAT CONDITIONS: NOT KNOWN HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL PRODUCE CARBON DIOXIDE, CARBON MONOXIDE, TRACE AMOUNTS OF PHOSGENE AND CHLORINE.
SECTION VI - HEALTH HAZARD DATA
ROUTE OF ENTRY:
SKIN CONTACT: YES SKIN ABSORPTION: YES EYE CONTACT: YES INHALATION: YES INGESTION: YES



MATERIAL REFERENCE NO: 109121

______ |EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |EYES-CONTACT MAY CAUSE SEVERE IRRITATION, PAIN. | SKIN-CONTACT MAY CAUSE BURNING SENSATION, MILD IRRITATION. | INHALATION-CAN CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES. IVERY HIGH CONCENTRATIONS MAY CAUSE IRRITATION TO UPPER RESPIRATORY |TRACT, DIZZINESS, NAUSEA, AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. | | INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING | AND DIARRHEA. ASPIRATION INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS. | | EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: | SKIN-PROLONGED OR REPEATED CONTACT MAY CAUSE DEFATTING, DERMATITIS. | |LD 50 OF MATL. |LC 50 OF MATL. |EXPOSURE LIMIT(S)|IRRITANCY OF MATL| | NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE | SKIN AND EYE | | IRRITANT, TOXIC | |SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS NONE KNOWN NONE KNOWN _____ |CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY: | | CONTAINS TETRACHLOROETHYLENE WHICH HAS BEEN SHOWN TO INCREASE THE | INCIDENCE OF TUMORS IN CERTAIN STRAINS OF MICE AND RATS. THIS | PRODUCT IS NOT BELIEVED TO POSE A MEASURABLE RISK TO HUMANS WHEN IHANDLED AS RECOMMENDED. SECTION VII - PREVENTIVE MEASURES ______ | PERSONAL PROTECTIVE EQUIPMENT: GLOVES: POLYETHYLENE, NITRILE, ETHYL VINYL ALCOHOL LAMINATE, POLYVINYL ALCOHOL, VITON. | RESPIRATORY: WHERE EXPOSURE GUIDELINES MAY BE EXCEEDED. WEAR ORGANIC | VAPOR RESPIRATOR OR SELF CONTAINED BREATHING APPARATUS. EYE: SAFETY GLASSES. FOOTWEAR: ADEQUATE TO PREVENT CONTACT WITH SKIN. CLOTHING: ADEQUATE TO PREVENT CONTACT WITH SKIN. OTHER: EYE WASH AND SAFETY SHOWER | ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): GENERAL OR | | LOCAL VENTILATION IN CONFINED SPACES OR WHEN TLV IS EXCEEDED. | LEAK AND SPILL PROCEDURE: REMOVE SOURCES OF IGNITION. ALLOW | PROPELLANT TO EVAPORATE. ABSORB ONTO SUITABLE ABSORBANT. SWEEP UP | AND PLACE IN CONTAINER FOR DISPOSAL. WASH AREA TO REMOVE RESIDUAL I PRODUCT. |WASTE DISPOSAL: DISPOSE OF THROUGH A LICENSED WASTE DISPOSAL | FACILITY IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND LOCAL | REGULATIONS. DO NOT PUNCTURE OR INCINERATE.



MATERIAL REFERENCE NO: 109121

SECTION VIII - FIRST AID MEASURES
PROCEDURES: EYES-IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN-FLUSH WITH SOAP AND WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ASSISTANCE IF IRRITATION PERSISTS. INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. IF BREATHING ISDIFFICULT, GET IMMEDIATE MEDICAL ATTENTION. INGESTION-IF SWALLOWED, DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET IMMEDIATE MEDICAL ATTENTION.
SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS
ADDITIONAL INFORMATION: NONE
SECTION IX - TDG SHIPPING INFORMATION
SHIPPING NAME
HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. USE ONLY IN WELL-VENTILATED AREAS. WASH THOROUGHLY AFTER HANDLING.
STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA. DO NOT STORE WHERE TEMPERATURES EXCEED 49 (C).
SPECIAL SHIPPING INFORMATION: NON-HEATED
SECTION X - HMIS HAZARD RATING INFORMATION
FLAMMABILITY REACTIVITY HEALTH 1 1 0 2
SECTION XI - PREPARATION DATE OF MSDS
PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 REVIEWED: OCTOBER 5, 2009
DISCLAIMER: THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILTY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING

FROM THE USE OF THE INFORMATION.