



# MATERIAL SAFETY DATA SHEET

KEM CANADA MFG.  
4 BLAIR DRIVE  
BRAMPTON, ONTARIO  
L6T 2H5  
TEL# (905) 456-9444

EMERGENCY # CANUTEC (613) 996-6666  
**"USE IN CASE OF CHEMICAL EMERGENCY ONLY"**

W.H.M.I.S. CLASSIFICATION A, D2B

MATERIAL REFERENCE NO: 111421

## SECTION I - MATERIAL IDENTIFICATION AND USE

|                                   |                                    |
|-----------------------------------|------------------------------------|
| MATERIAL NAME/I.D.: COIL BIO-FOAM |                                    |
| CHEMICAL NAME: MIXTURE            | CHEMICAL FAMILY: PRESSURIZED BLEND |
| CHEMICAL FORMULA: MIXTURE         | MOLECULAR WEIGHT: NOT APPLICABLE   |
| SYNONYMS: NONE                    |                                    |
| MATERIAL USE: COIL CLEANER        |                                    |

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

| HAZARDOUS<br>  INGREDIENTS   | APPROX.<br>  % CONCENT. | TLV<br>  PPM | C.A.S.<br>  NUMBERS | LD 50<br>  ORAL, RAT |
|------------------------------|-------------------------|--------------|---------------------|----------------------|
| LIQUIFIED PETROLEUM<br>  GAS | 5.0-10.0                | 1000         | 68476-86-7          | NOT<br>  AVAILABLE   |
|                              |                         |              |                     |                      |
|                              |                         |              |                     |                      |
|                              |                         |              |                     |                      |
|                              |                         |              |                     |                      |
|                              |                         |              |                     |                      |

## SECTION III - PHYSICAL DATA FOR MATERIAL

|                                                |                                          |                                             |
|------------------------------------------------|------------------------------------------|---------------------------------------------|
| PHYSICAL STATE: AEROSOL                        |                                          |                                             |
| ODOUR AND APPEARANCE: WHITE FOAM; FRESH ODOUR. |                                          |                                             |
| ODOUR THRESHOLD (PPM)<br>  NOT AVAILABLE       | SPECIFIC GRAVITY<br>  (CONCENTRATE) 1.00 | VAPOUR PRESSURE (MM)<br>  55 PSIG AT 21 (C) |
| VAPOUR DENSITY (AIR=1)<br>  > 1                | EVAPORATION RATE<br>  NOT AVAILABLE      | SOLUBILITY IN WATER<br>  (20°C) COMPLETELY  |
| BOILING POINT (C)<br>  INITIAL (FILL) 100      | FREEZING POINT (C)<br>  NOT AVAILABLE    | TOTAL VOC %<br>  ~6.7                       |
| pH (CONCENTRATE)<br>  8.8                      | DENSITY (G/ML)<br>  NOT APPLICABLE       | COEF.OF WATER/OIL DISTR<br>  NOT AVAILABLE  |



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## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

|                                                                  |                       |                       |  |
|------------------------------------------------------------------|-----------------------|-----------------------|--|
| FLAMMABILITY: NON TO BOILING                                     |                       |                       |  |
| IF YES, UNDER WHICH CONDITIONS:                                  |                       |                       |  |
| MEANS OF EXTINCTION: FOAM, CO2, DRY CHEMICAL.                    |                       |                       |  |
| 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          |                       |                       |  |
| NON-FLAMMABLE SPRAY                                              |                       |                       |  |
| HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE.  |                       |                       |  |
|                                                                  |                       |                       |  |
| UPPER EXPLOSION LIMIT                                            | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP(C)  |  |
| NOT AVAILABLE                                                    | 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.                       |  |  |  |
|                                                                   |  |  |  |
| REACTIVITY AND UNDER WHAT CONDITIONS: NONE KNOWN.                 |  |  |  |
| HAZARDOUS POLYMERIZATION WILL NOT OCCUR.                          |  |  |  |
| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL GIVE |  |  |  |
| CARBON DIOXIDE, CARBON MONOXIDE.                                  |  |  |  |
|                                                                   |  |  |  |

## SECTION VI - HEALTH HAZARD DATA

|                   |                      |                  |  |
|-------------------|----------------------|------------------|--|
| ROUTE OF ENTRY:   |                      |                  |  |
| SKIN CONTACT: YES | SKIN ABSORPTION: YES | EYE CONTACT: YES |  |
| INHALATION: YES   | INGESTION: YES       |                  |  |



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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:  
EYES-CONTACT MAY CAUSE MODERATE IRRITATION.  
SKIN-CONTACT MAY CAUSE IRRITATION. MAY AGGRAVATE EXISTING SKIN CONDITIONS.  
INHALATION-INHALATION OF MIST CAN CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES.  
INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:  
EXCESSIVE INHALATION MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT  
DIZZINESS, NAUSEA AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS.

| LD 50 OF MATL. | LC 50 OF MATL. | EXPOSURE LIMIT(S) | IRRITANCY OF MATL |
|----------------|----------------|-------------------|-------------------|
| NOT AVAILABLE  | NOT AVAILABLE  | NOT AVAILABLE     | MODERATE          |

| SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS |
|---------------------------|-----------------------|
| NOT KNOWN                 | NONE KNOWN            |

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:  
NONE KNOWN

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: CHEMICAL RESISTANT IF REQUIRED.  
RESPIRATORY: NOT NORMALLY REQUIRED. FOR PROLONGED EXPOSURES OR IF TLV IS EXCEEDED USE APPROVED ORGANIC CANISTER OR SELF CONTAINED BREATHING APPARATUS.  
EYE: CHEMICAL GOGGLES AS REQUIRED.  
FOOTWEAR: NO SPECIAL REQUIREMENTS  
CLOTHING: NO SPECIAL REQUIREMENTS  
OTHER: EYE WASH AND SAFETY SHOWER  
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL TO MAINTAIN LEVELS BELOW TLV.

LEAK AND SPILL PROCEDURE: ALLOW PROPELLANT TO EVAPORATE. PROVIDE ADEQUATE VENTILATION. REMOVE IGNITION SOURCES. ABSORB ONTO SAND OR ABSORBENT AND SCOOP INTO DISPOSAL CONTAINER. WASH AREA TO PREVENT SLIPPING.

WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND LOCAL REGULATIONS. DO NOT PUNCTURE OR INCINERATE.



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## SECTION VIII - FIRST AID MEASURES

PROCEDURES:  
EYES-FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. IF IRRITATION PERSISTS GET IMMEDIATE MEDICAL ATTENTION  
SKIN-WASH THOROUGHLY WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.  
INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. GET MEDICAL ASSISTANCE.  
INGESTION-IF SWALLOWED, DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS

ADDITIONAL INFORMATION: NONE

## SECTION IX - TDG SHIPPING INFORMATION

| SHIPPING NAME                                   | CLASS | UN NO. | PG |
|-------------------------------------------------|-------|--------|----|
| D.G. Safety Marks are in accordance with 49 CFR |       |        |    |

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN.  
WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM OXIDIZING AGENTS. DO NOT STORE WHERE TEMPERATURES EXCEED 49 (C).

SPECIAL SHIPPING INFORMATION: NON-HEATED

## SECTION X - HMIS HAZARD RATING INFORMATION

| FLAMMABILITY | REACTIVITY | HEALTH    |
|--------------|------------|-----------|
| (CONC.) 0    | (CONC.) 0  | (CONC.) 1 |

## SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT      TELEPHONE # (905) 456-9444  
REVIEWED:      OCTOBER 1, 2009

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