



# 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, D1A, D2B

MATERIAL REFERENCE NO: 114121

## SECTION I - MATERIAL IDENTIFICATION AND USE

|   |
|---|
| MATERIAL NAME/I.D.: ADMIRAL CS 27 (AEROSOL)                       |
| CHEMICAL NAME: MIXTURE   CHEMICAL FAMILY: PRESSURIZED BLEND       |
| CHEMICAL FORMULA: NOT AVAILABLE   MOLECULAR WEIGHT: NOT AVAILABLE |
| SYNONYMS: NONE  |
| MATERIAL USE: DEFOGGER, ANTISTAT, CLEANER, PROECTANT              |

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

| HAZARDOUS INGREDIENTS   | APPROX. % CONCEN. | TLV PPM | C.A.S. NUMBERS | LD 50 ORAL, RAT |
|-------------------------|-------------------|---------|----------------|-----------------|
| ISOPROPYL ALCOHOL       | 5.0-10.0          | 400     | 67-63-0        | 5045 MG/KG      |
| LIQUIFIED PETROLEUM GAS | 5.0-10.0          | 1000    | 68476-85-7     | NOT AVAILABLE   |

## SECTION III - PHYSICAL DATA FOR MATERIAL

|  |   |   |
|--|---|---|
| PHYSICAL STATE: AEROSOL                            |   |   |
| ODOUR AND APPEARANCE: WHITE LIQUID; ALCOHOL ODOUR. |   |   |
| ODOUR THRESHOLD (PPM)<br>NOT AVAILABLE             | SPECIFIC GRAVITY<br>(CONCENTRATE) 1.005 | VAPOUR PRESSURE (MM)<br>56 PSIG AT 20 (C) |
| VAPOUR DENSITY (AIR=1)<br>>1                       | EVAPORATION RATE<br>NOT AVAILABLE       | SOLUBILITY IN WATER<br>(25°C) COMPLETE    |
| BOILING POINT (C)<br>100                           | FREEZING POINT (C)<br>NOT AVAILABLE     | % VOLATILE (BY WEIGHT)<br>100             |
| pH (100% SOLUTION)<br>11.0                         | 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: NONE TO BOILING   |  |  |
| IF YES, UNDER WHICH CONDITIONS:   |  |  |
| MEANS OF EXTINCTION: FOAM, DRY CHEMICAL, CO <sub>2</sub> .  |  |  |
| 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: NON-FLAMMABLE   |  |  |
| HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE.   |  |  |
|   |  |  |
| UPPER EXPLOSION LIMIT<br>NOT AVAILABLE  | LOWER EXPLOSION LIMIT<br>NOT AVAILABLE | AUTOIGNITION TEMP(C)<br>NOT AVAILABLE                            |
| EXPLOSION DATA SENSITIVITY<br>TO CHEMICAL IMPACT<br>NOT AVAILABLE   | RATE OF BURNING<br>NOT AVAILABLE       | EXPLOSIVE POWER<br>PRESSURIZED CONTAINER<br>KEEP TEMP. BELOW 50C |
| 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: NOT 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 IRRITATION OF EYES.  
SKIN-CONTACT MAY CAUSE IRRITATION.  
INHALATION-MAY CAUSE IRRITATION OF NASAL AND RESPIRATORY TRACT.  
INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:  
INHALATION-EXCESSIVE INHALATION MAY CAUSE IRRITATION TO THE 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     | SKIN AND EYE<br>IRRITANT. |

|                           |                       |
|---------------------------|-----------------------|
| SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS |
| NONE KNOWN                | NONE KNOWN            |

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:  
NONE KNOWN.

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VITON IF REQUIRED  
RESPIRATORY: NOT NORMALLY REQUIRED.  
EYE: CHEMICAL GOGGLES  
FOOTWEAR: NO SPECIAL REQUIREMENTS  
CLOTHING: NO SPECIAL REQUIREMENTS  
OTHER: EYE WASH AND SAFETY SHOWER

ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): MECHANICAL VENTILATION IN CONFINED SPACES OR WHEN TLV IS EXCEEDED.

LEAK AND SPILL PROCEDURE: ALLOW PROPELLANT TO EVAPORATE. ABSORB ONTO SUITABLE ABSORBANT AND SWEEP UP AND PLACE IN DISPOSAL CONTAINER.  
FLUSH FLOOR TO REMOVE RESIDUAL PRODUCT.

WASTE DISPOSAL: DISPOSE OF THROUGH A LICENSED WASTE DISPOSAL FACILITY 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. GET MEDICAL ASSISTANCE.  
SKIN-FLUSH WITH SOAP AND WATER. CONTACT A PHYSICIAN IF IRRITATION OCCURS.  
INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE OXYGEN. GET MEDICAL ASSISTANCE.  
INGESTION-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. USE ONLY IN WELL-VENTILATED AREAS. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM OXIDIZING AGENTS. DO NOT STORE WHERE TEMPERATURES EXCEED 50 (C).

SPECIAL SHIPPING INFORMATION: NON-HEATED

## SECTION X - HMIS HAZARD RATING INFORMATION

| FLAMMABILITY | REACTIVITY | HEALTH |
|--------------|------------|--------|
| 1            | 0          | 1      |

## SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT      TELEPHONE # (905) 456-9444  
REVIEWED: JULY 25, 2002

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