



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: B2, D1B, E

MATERIAL REFERENCE NO: 252500

SECTION I - MATERIAL IDENTIFICATION AND USE

| | |
|--------------------------------------------------|----------------------------------|
| MATERIAL NAME/I.D.: SUPER QUAD II | |
| CHEMICAL NAME: NOT APPLICABLE | CHEMICAL FAMILY: ALKALINE BLEND |
| CHEMICAL FORMULA: MIXTURE | MOLECULAR WEIGHT: NOT APPLICABLE |
| SYNONYMS: NONE | |
| MATERIAL USE: INDUSTRIAL RENOVATOR (WATER BASED) | |

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

| HAZARDOUS INGREDIENTS | APPROX. % CONCENT. | TLV PPM | C.A.S. NUMBERS | LD 50 RAT, ORAL |
|----------------------------|-------------------------|--------------|---------------------|----------------------|
| SODIUM METASILICATE | 5.0-10.0 | NO DATA | 6834-92-0 | 1153 MG/KG |
| 2-AMINO-2-METHYLPROPANOL | 0.5- 1.5 | NO DATA | 124-68-5 | 2900 MG/KG |
| DIPROPYLENE GLYCOL | 1.0- 5.0 | 100 | 34590-94-8 | 5400 uL/KG |
| METHYL ETHER | | | | |
| ISOPROPYL ALCOHOL | 3.0- 7.0 | 400 | 67-63-0 | 5045 MG/KG |
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SECTION III - PHYSICAL DATA FOR MATERIAL

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|--------------------------------------------------------------|-------------------------------------|--------------------------------------------|
| PHYSICAL STATE: LIQUID | | |
| ODOUR AND APPEARANCE: CLEAR, ORANGE LIQUID; SASSAFRAS ODOUR. | | |
| ODOUR THRESHOLD (PPM) NOT AVAILABLE | SPECIFIC GRAVITY 1.04 | VAPOUR PRESSURE (MM) NOT AVAILABLE |
| VAPOUR DENSITY (AIR=1) > 1 | EVAPORATION RATE (WATER = 1) 1 | SOLUBILITY IN WATER COMPLETE (20 ø C) |
| BOILING POINT (C) 93.3 | FREEZING POINT (C) 0 (EST.) | % VOLATILE (BY WEIGHT) 90 |
| pH (10% SOLUTION) 12.0-13.0 | DENSITY (G/ML) NOT APPLICABLE | COEF.OF WATER/OIL DISTR NOT AVAILABLE |



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

| | | |
|------------------------------------------------------------------|-----------------------|-----------------------|
| FLAMMABILITY: YES | | |
| IF YES, UNDER WHICH CONDITIONS: VAPOURS FROM A SEALED CONTAINER | | |
| MAY BE FLAMMABLE. NON FLAMMABLE WHEN USED AS DIRECTED. | | |
| MEANS OF EXTINCTION: WATER FOG, CHEMICAL FOAM, CO2 | | |
| SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR AND SELF-CONTAINED | | |
| BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER. | | |
| | | |
| FLASH POINT (C) AND METHOD: 34.4 (TCC) | | |
| HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON AND NITROGEN, | | |
| TRACE OF SULPHUR DIOXIDE. | | |
| | | |
| 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 | | |
| NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE |
| SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE | | |

SECTION V - REACTIVITY DATA

| | | |
|---------------------------------------------------------------------|--|--|
| CHEMICAL STABILITY: YES | | |
| IF NO, UNDER WHICH CONDITIONS: | | |
| INCOMPATIBILITY TO OTHER SUBSTANCES: YES | | |
| IF SO, WHICH ONES: OXIDIZING AGENTS, STRONG ACIDS OR OTHER REACTIVE | | |
| MATERIALS. | | |
| REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED | | |
| | | |
| HAZARDOUS POLYMERIZATION WILL NOT OCCUR. | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN, | | |
| TRACE OF SULPHUR. | | |

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-CONCENTRATE MAY CAUSE SEVERE IRRITATION, STINGING, TEARING. |

|REPEATED OR PROLONGED CONTACT MAY CAUSE CONJUNCTIVITIS, BURNS AND |

|DAMAGE OF MUCOUS MEMBRANES, ULCERATION OF EYES. |

|SKIN-CONCENTRATE MAY CAUSE IRRITATION, ITCHING OR TINGLING, |

|INFLAMMATION. |

|INHALATION-PROLONGED BREATHING OF CONCENTRATED VAPOURS MAY CAUSE |

|IRRITATION OF EYES, NOSE AND THROAT, COUGHING, DIZZINESS. |

|INGESTION-MAY CAUSE IRRITATION AND BURNING SENSATION OF LIPS, MOUTH |

|AND THROAT, PAIN IN SWALLOWING, GASTRO-INTESTINAL IRRITATION, |

|ABUNDANT SALIVATION, STOMACH CRAMPS, NAUSEA. |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |

|SKIN-CONTACT MAY CAUSE IRRITATION, DEFATTING, DERMITITIS. |

|INHALATION-EXCESSIVE BREATHING OF HIGH CONCENTRATIONS OF MIST OR |

|VAPOURS MAY CAUSE CHEMICAL BRONCHITIS. |

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|----------------|----------------|-------------------|-------------------|
| 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 AVAILABLE | NOT AVAILABLE |

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY |

| NONE KNOWN |

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: RUBBER OR VINYL WHEN HANDLING CONCENTRATE |

|RESPIRATORY: NOT NORMALLY REQUIRED |

| EYE: FACE SHIELD OR SAFETY GOGGLES IF SLASHING MAY OCCUR |

| FOOTWEAR: NO SPECIAL REQUIREMENTS |

| CLOTHING: NO SPECIAL REQUIREMENTS |

| OTHER: EYE WASH, SAFETY SHOWER |

|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): NATURAL IS |

| NORMALLY SUFFICIENT IN USE AREAS. LOCAL VENTILATION RECOMMENDED IN |

| CONFINED OR ENCLOSED AREAS. |

|LEAK AND SPILL PROCEDURE: REMOVE IGNITION SOURCES. CONTAIN SPILL. |

|SMALL SPILLS MAY BE FLUSHED TO SEWER WITH LARGE VOLUMES OF WATER. |

|LARGE SPILLS-TRANSFER TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL. |

|ABSORB REMAINING MATERIAL ONTO INERT ABSORBENT AND SCOOP INTO |

|DISPOSAL CONTAINER. FLUSH RESIDUAL WITH VOLUMES OF WATER. |

|WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, PROVINCIAL |

|AND FEDERAL REGULATIONS. |



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SECTION VIII - FIRST AID MEASURES

| PROCEDURES: |

| EYES-FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS |

| OPEN. GET MEDICAL ATTENTION IF PAIN OR IRRITATION PERSISTS. |

| SKIN-REMOVE CONTAMINATED CLOTHING. FLUSH AFFECTED AREA WITH RUNNING |

| WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION |

| PERSISTS. LAUNDRER CLOTHING BEFORE REUSE. |

| INHALATION-MOVE VICTIM TO FRESH AIR AND LOOSEN CLOTHING. IF |

| BREATHING IS DIFFICULT GIVE OXYGEN. IF NOT BREATHING, ADMINISTER |

| ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. GET MEDICAL ATTENTION. |

| INGESTION-DO NOT INDUCE VOMITING. GIVE COLD WATER OR ICE TO RINSE |

| MOUTH. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING |

| 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 | CLASS | UN NO. | PACKING GROUP |
|---------------|-------|--------|---------------|
| NOT REGULATED | | | |

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND |

| CLOTHING. DO NOT MIX WITH ACIDS. AVOID SOURCES OF IGNITION. WASH |

| THOROUGHLY AFTER HANDLING. |

| STORAGE REQUIREMENTS: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP |

| FROM FREEZING. |

| SPECIAL SHIPPING INFORMATION: HEATED |

SECTION X - HMIS HAZARD RATING INFORMATION

| FLAMMABILITY | REACTIVITY | HEALTH |
|--------------|------------|--------|
| 1 | 0 | 2 |

SECTION XI - PREPARATION DATE OF MSDS

| | |
|-----------------------------------|----------------------------|
| PREPARED BY: TECHNICAL DEPARTMENT | TELEPHONE # (905) 456-9444 |
| REVISED: OCTOBER 4, 2009 | REPLACES: JUNE 22, 2006 |

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