



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:
C, D1A, D2A, D2B, E

MATERIAL REFERENCE NO: 772000

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 720
CHEMICAL NAME: NOT APPLICABLE CHEMICAL FAMILY: CHROMATES
CHEMICAL FORMULA: MIXTURE MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE
MATERIAL USE: CONCENTRATED CHROMATE MIXTURE

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM DICHROMATE	20.0-30.0	0.05MG/M3 as Cr(VI)	10588-01-9	50 MG/KG
ZINC CHLORIDE	7.0-13.0	NO DATA	7646-85-7	350 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID
ODOUR AND APPEARANCE: DARK, YELLOW ORANGE LIQUID; SLIGHT ODOUR.
ODOUR THRESHOLD (PPM) SPECIFIC GRAVITY VAPOUR PRESSURE (MM)
NOT AVAILABLE 1.198 NOT AVAILABLE
VAPOUR DENSITY (AIR=1) EVAPORATION RATE SOLUBILITY IN WATER
NOT AVAILABLE (WATER=1) >1 (20 ° C) SOLUBLE
BOILING POINT (C) FREEZING POINT (C) % VOLATILE (BY WEIGHT)
NOT AVAILABLE NOT AVAILABLE 75
pH (10% SOLUTION) DENSITY (G/ML) COEF.OF WATER/OIL DISTR
4.0-4.5 NOT APPLICABLE NOT AVAILABLE



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

| FLAMMABILITY: NON-FLAMMABLE
| IF YES, UNDER WHICH CONDITIONS:

| MEANS OF EXTINCTION: AS APPROPRIATE FOR SURROUNDING MATERIALS.

| SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-
| CONTAINED BREATHING APPARATUS.
| DECOMPOSITION OF SODIUM DICHROMATE UNDER FIRE CONDITIONS LIBERATES
| OXYGEN.

| FLASH POINT (C) AND METHOD: NONE (TCC)

| HAZARDOUS COMBUSTION PRODUCTS:

| THERMAL DECOMPOSITION OF SODIUM DICHROMATE LIBERATES OXYGEN. SMALL
| AMOUNTS OF HYDROGEN CHLORIDE AND ZINC OXIDE MAY BE FORMED.

| UPPER EXPLOSION LIMIT | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP (C)
| NOT APPLICABLE | NOT APPLICABLE | NOT AVAILABLE

| EXPLOSION DATA SENSITIVITY | RATE OF BURNING | EXPLOSIVE POWER
| TO CHEMICAL IMPACT | |
| NOT AVAILABLE | NOT APPLICABLE | NOT AVAILABLE

| 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 ACIDS, OXIDIZABLE MATERIALS, ORGANIC
| MATERIALS, CYANIDES, SULFIDE SALTS.

| REACTIVITY AND UNDER WHAT CONDITIONS: MAY REACT WITH CYANIDES TO
| RELEASE TOXIC HYDROGEN CYANIDE. MAY REACT WITH SULPHIDE SALTS TO
| RELEASE HYDROGEN SULPHIDE.

| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY
| LIBERATE OXYGEN, HYDROGEN CHLORIDE, ZINC OXIDE.

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 CAN CAUSE SEVERE IRRITATION, POSSIBLE BURNS, CORNEAL
|DAMAGE.
|SKIN-CONTACT CAN CAUSE MILD IRRITATION. EXPOSURE TO SKIN WOUNDS
|MAY LEAD TO MARGINATED 'CHROME SORES'. MAY BE ABSORBED THROUGH
|UNBROKEN SKIN WITH EXCESSIVE QUANTITIES POTENTIALLY FATAL. MAY CAUSE
|RASH OR ULCERS.
|INGESTION-MAY CAUSE TISSUE DAMAGE, STOMACH AND KIDNEY COMPLICATIONS.
|POISONOUS IF INGESTED.

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
|EYES-REPEATED OR PROLONGED CONTACT MAY PRODUCE CHRONIC IRRITATION
|SKIN-REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION,
|DERMITITIS.
|INHALATION-REPEATED OR PROLONGED BREATHING OF LIQUID OR SPRAY MAY
|PRODUCE RESPIRATORY IRRITATION LEADING TO FREQUENT ATTACKS OF
|BRONCHIAL INFECTION.
|INGESTION-OF EXCESSIVE QUANTITIES CAN BE FATAL.

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

|SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS
| NOT AVAILABLE | NOT AVAILABLE

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY
|CHROMIUM VI CAUSES CARCINOGENIC EFFECTS IN ANIMALS AND HUMANS AND
|TERATOGENIC EFFECTS IN ANIMALS.
|

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT:
|
| GLOVES: IMPERVIOUS (i.e. PVC, NITRILE)
|RESPIRATORY: NONE NORMALLY REQUIRED. NIOSH APPROVED RESPIRATOR IF
| OCCUPATIONAL EXPOSURES ARE EXCEEDED.
| EYE: CHEMICAL GOGGLES
| FOOTWEAR: IMPERVIOUS
| CLOTHING: IMPERVIOUS
| OTHER: EYE WASH AND SAFETY SHOWER
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL
| VENTILATION TO MAINTAIN EXPOSURES WITHIN ACCEPTABLE LIMITS.

|LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT.
|PROVIDE ADEQUATE VENTILATION. CONTAIN SPILL AND TRANSFER TO SUITABLE
|CONTAINER FOR REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO
|ABSORBANT AND PLACE IN CONTAINER FOR DISPOSAL.

|WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH LOCAL, PROVINCIAL AND
|FEDERAL REGULATIONS.



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SECTION VIII - FIRST AID MEASURES

| PROCEDURES:

| EYES-IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES
| WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
| SKIN-IMMEDIATELY FLUSH AFFECTED AREA WITH RUNNING WATER FOR AT LEAST
| 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. GET MEDICAL
| ATTENTION. LAUNDER CLOTHING BEFORE REUSE.
| INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
| RESPIRATION. IF BREATHING IS DIFFICULT, GET IMMEDIATE MEDICAL
| ATTENTION.
| INGESTION-DO NOT INDUCE VOMITING. SLOWLY GIVE ONE-TWO GLASSES OF