

**MATERIAL SAFETY DATA SHEET**

Printed: 4/18/11

LUPEROX DDM-9**PRODUCT IDENTIFICATION AND USE**

MANUFACTURER: ARKEMA CANADA INC.
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L7L 6B2

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(613) 996-6666 (CANUTEC)

PRODUCT IDENTIFIER: LUPEROX DDM-9
PRODUCT CODE: LU010
PRODUCT USE: CURING AGENT FOR POLYESTER RESIN AND VINYL ESTER RESINS.

WHMIS CLASSIFICATION: C - OXIDIZING MATERIAL.
D1B - TOXIC MATERIAL CAUSING IMMEDIATE AND SERIOUS TOXIC EFFECTS.
D2B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS.

HAZARDOUS INGREDIENTS

| | % W/W | CAS # | TLV |
|---|-------|-----------|---|
| METHYL ETHYL KETONE PEROXIDE(S) LD50: 484 MG/KG (ORAL-RAT) LD50: 4,000 MG/KG (DERMAL-RABBIT) LC50: 17-50 MG/ML (4-HR – INHALATION-RAT) | 15-40 | 1338-23-4 | ACGIH CEILING = 0.2 PPM |
| HEXYLENE GLYCOL LD50: 2,800-4,700 MG/KG (ORAL-RATS) LD50: >1,840 – 12,300 MG/KG (DERMAL-RABBIT) LC0: >160 PPM (8HR-INHALATION-RAT) | 5-10 | 107-41-5 | ACGIH CEILING = 25 PPM |
| METHYL ETHYL KETONE LD50: 2,700-5,600 MG/KG (ORAL-RAT) LD50: 5,000-13,000 MG/KG (DERMAL-RABBIT) LC50: 11,700 PPM (4-HR – INHALATION-RAT) | 0.1-1 | 78-93-3 | ACGIH TWA = 200 PPM ACGIH STEL = 300 PPM |
| HYDROGEN PEROXIDE LD50: 75 MG/KG (ORAL-RAT)* LD50: >6500 MG/KG (DERMAL-RABBIT)* LC50: 2 MG/L (4HR –INHALATION RAT) | 0.1-1 | 7722-84-1 | ACGIH TWA = 1 PPM |

* 70 % SOLUTION

ADDITIONAL INGREDIENT INFORMATION (WHMIS NOT CONTROLLED):
2,2,4-TRIMETHYL -1,3-PENTANEDIOL DIISOBUTYRATE

NE

PHYSICAL DATA

PHYSICAL STATE: LIQUID
ODOUR AND APPEARANCE: CLEAR OILY LIQUID; SWEET ODOUR.
ODOUR THRESHOLD: NE
SPECIFIC GRAVITY/DENSITY (G/ML): 1.0088 @ 20°C
VAPOUR PRESSURE: 5.2 TORR @ 19°C
VAPOUR DENSITY (AIR=1): NE
VOLATILITY/VOL(%): NE
SOLUBILITY IN H2O: SLIGHT

NA - NOT APPLICABLE

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EVAPORATION RATE: NE
BOILING POINT: NE
FREEZING POINT: NE
PH: NA
LOG KOW: NE

SHIPPING INFORMATION

UN 3105, 5.2, II, ORGANIC PEROXIDE TYPE D, LIQUID. [METHYL ETHYL KETONE PEROXIDE(S), <=45%].

FIRE AND EXPLOSION HAZARD

FLAMMABILITY: NOT FLAMMABLE
CONDITIONS: WILL BURN ABOVE FLASH POINT.
MEANS OF EXTINCTION: WATER SPRAY, FOAM OR DRY CHEMICAL
FLASHPOINT: 95°C (SETA CC)
UPPER EXPLOSION LIMIT (% V): NE
LOWER EXPLOSION LIMIT (%V): NE
AUTO-IGNITION TEMPERATURE: 75°C / 169°F (45 LB CTN)
(SELF ACCELERATING DECOMPOSITION TEMPERATURE).
HAZARDOUS COMBUSTION PRODUCTS: NE
EXPLOSION DATA: CONTAMINATION, TEMPERATURE – CAN DECOMPOSE WITH
FORCE IF CONFINED DURING EXPOSURE TO FIRE.
SENSITIVITY TO IMPACT: NO
SENSITIVITY TO STATIC DISCHARGE: NO

REACTIVITY

CHEMICAL STABILITY: UNSTABLE
INCOMPATIBLE MATERIALS: STRONG ACIDS, ALKALIS, OXIDIZERS, TRANSITION METAL SALTS,
PROMOTERS / ACCELERATORS, REDUCING AGENTS, COPPER,
BRASS, RUST, ACETONE.
CONDITIONS OF REACTIVITY: NE
HAZARDOUS DECOMPOSITION PRODUCTS: DECOMPOSITION PRODUCTS ARE FLAMMABLE.

HEALTH HAZARD INFORMATION

ROUTE OF ENTRY
SKIN CONTACT: MAY CAUSE SKIN IRRITATION.
SKIN ABSORPTION: MAY BE ABSORBED.
EYE: MAY CAUSE SEVERE IRRITATION OR BLINDNESS
INGESTION: MAY BE HARMFUL
INHALATION: VAPOURS MAY CAUSE SEVERE IRRITATION OF THE
RESPIRATORY TRACT.
ACUTE OVER EXPOSURE EFFECTS: NE
CHRONIC OVER EXPOSURE EFFECTS: NE
SENSITIZATION: DOES NOT MEET WHMIS CRITERIA.
CARCINOGENICITY: HYDROGEN PEROXIDE IS CLASSIFIED BY ACGIH AS A3 –
ANIMAL CARCINOGEN. CAUSES CANCER IN ANIMALS UNDER
UNCOMMON CONDITIONS THAT MAY NOT BE RELEVANT TO
WORKER EXPOSURE.
TERATOGENICITY: DOES NOT MEET WHMIS CRITERIA.
MUTAGENICITY: DOES NOT MEET WHMIS CRITERIA.
REPRODUCTIVE TOXICITY: DOES NOT MEET WHMIS CRITERIA.

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LUPEROX DDM-9**PREVENTIVE MEASURES**

| | |
|------------------------------------|---|
| PERSONAL PROTECTIVE EQUIPMENT: | WEAR GOGGLES, FACE SHIELD, PROTECTIVE CLOTHING AND USE IMPERVIOUS GLOVES. WEAR A NIOSH APPROVED RESPIRATOR EQUIPPED WITH AN ORGANIC VAPOUR CARTRIDGE. |
| SPECIFIC ENGINEERING CONTROLS: | LOCAL EXHAUST IS RECOMMENDED. |
| LEAK AND SPILL PROCEDURES: | USE NON-COMBUSTIBLE ABSORBENT MATERIAL. SWEEP OR SCOOP AND PLACE IN A CLOSED CONTAINER. WET DOWN WITH WATER AND DISPOSE OF IMMEDIATELY. |
| WASTE DISPOSAL: | HAZARDOUS WASTE. DO NOT ALLOW PRODUCT TO ENTER THE ENVIRONMENT. CONSULT FEDERAL OR LOCAL AUTHORITIES FOR APPROVED DISPOSAL METHODS. |
| HANDLING PROCEDURES AND EQUIPMENT: | KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. WASH BEFORE EATING, DRINKING, USING TOBACCO PRODUCTS OR REST ROOMS. |
| STORAGE REQUIREMENTS: | KEEP IN A CLOSED, LABELED CONTAINER IN A VENTILATED AREA. STORE BELOW 38°C/100°F. |

FIRST AID MEASURES

| | |
|------------|--|
| EYE | FLUSH EYES WITH LARGE AMOUNT OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION. |
| SKIN | WASH SKIN WITH WATER AND SOAP. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS OR PERSISTS. |
| INGESTION | DO NOT GIVE LIQUIDS IF PERSON IS UNCONSCIOUS OR VERY DROWSY. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION. |
| INHALATION | REMOVE PERSON TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, APPLY ARTIFICIAL RESPIRATION AND ADMINISTER OXYGEN IF NECESSARY. SEEK MEDICAL ATTENTION. |

PREPARATION DATE

| | |
|---------------------------|-----------------------|
| PREPARED BY: | TECHNICAL DEPARTMENT. |
| PHONE NUMBER OF PREPARER: | (800) 567-5726 |
| DATE PREPARED (MM/DD/YY): | 01/24/97 |
| DATE REVISED (MM/DD/YY): | 04/18/11 |

MINIMUM CONTACT WITH THIS AND ALL CHEMICALS IS RECOMMENDED AS A GOOD GENERAL POLICY TO FOLLOW.

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