

**MATERIAL SAFETY DATA SHEET**

Printed: 9/29/08

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

MANUFACTURER: ARKEMA CANADA INC.  
700 THIRD LINE  
OAKVILLE, ONTARIO  
L6J 5A3

EMERGENCY PHONE NUMBER: (905) 827-9841 (ARKEMA)  
(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: 12,300-13,200 MG/KG (DERMAL-RABBIT)	6-7	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)	1-5	78-93-3	ACGIH TWA = 200 PPM ACGIH STEL = 300 PPM
HYDROGEN PEROXIDE LD50: 805 MG/KG (ORAL-RAT)** LD50: >6500 MG/KG (DERMAL-RABBIT)** LC50: 170 MG/M3 (4HR -INHALATION RAT)**	0.1-1	7722-84-1	ACGIH TWA = 1 PPM

\*ACUTE TOXICITY TEST RUN ON 40-60% MEKP IN DIMETHYL PHTHALATE. PRODUCT NO LONGER CONTAINS DIMETHYL PHTHALATE.

\*\* 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; KETONE ODOUR.  
ODOUR THRESHOLD: NE  
SPECIFIC GRAVITY/DENSITY (G/ML): 1.0088 @ 20°C  
VAPOUR PRESSURE: 5.2 TORR @ 19°C

NA - NOT APPLICABLE

NE - NOT ESTABLISHED

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VAPOUR DENSITY (AIR=1):	NE
VOLATILITY/VOL(%):	NE
SOLUBILITY IN H <sub>2</sub> O:	SLIGHT
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), &lt;=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.
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:	MAY CAUSE ALLERGIC SKIN REACTION.
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:	METHYL ETHYL KETONE IS A POSSIBLE TERATOGEN.
MUTAGENICITY:	DOES NOT MEET WHMIS CRITERIA.

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REPRODUCTIVE TOXICITY: DOES NOT MEET WHMIS CRITERIA.

**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: LEAK AND SPILL PROCEDURES:	LOCAL EXHAUST IS RECOMMENDED. 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:	905-827-9841
DATE PREPARED (MM/DD/YY):	01/24/97
DATE REVISED (MM/DD/YY):	09/23/08

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

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