

**MATERIAL SAFETY DATA SHEET**

Printed: 4/6/10

LUPEROX 224**PRODUCT IDENTIFICATION AND USE**

MANUFACTURER: ARKEMA CANADA INC.
655, ALPHONSE-DESHAIES BLVD.
BECANCOUR, QC
G9H 2Y8

EMERGENCY PHONE NUMBER: (800) 567-5726 (ARKEMA)
(613) 996-6666 (CANUTEC)

PRODUCT IDENTIFIER: LUPEROX 224

PRODUCT CODE: LU035

PRODUCT USE: POLYMERIZATION INITIATOR

WHMIS CLASSIFICATION: C - OXIDIZING MATERIAL.
D2B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS.

HAZARDOUS INGREDIENTS

| | % W/W | CAS # | TLV |
|--|-----------|------------|---|
| 2,4-PENTADIONE PEROXIDE LD50: >2,000 MG/KG (ORAL-RAT) LD50: >2,000 MG/KG (DERMAL-RABBIT) LC0: 13.1 MG/L (I-HR. - INHALATION-RAT) | 15 - 40 | 37187-22-7 | NE |
| DIACETONE ALCOHOL LD50: 4,000 MG/KG (ORAL-RAT) LD50: 13,630 MG/KG (DERMAL-RABBIT) LC50: >1,500 PPM (8-HR.-INHALATION-RAT) | 15 - 40 | 123-42-2 | ACGIH TWA = 50 PPM |
| N-METHYL-2-PYRROLIDONE LD50: 3,900-4,300 MG/KG (ORAL-RAT) LD50: 4,000-8,000 MG/KG (DERMAL-RABBIT) LC50: 3.1- 8.8 MG/L (4-HR - INHALATION-RAT) | 10 - 30 | 872-50-4 | WEEL TWA = 10 PPM (SKIN) |
| DIETHYLENE GLYCOL LD50: 14,800-30,200 MG/KG (ORAL-RAT) LD50: 11,900 MG/KG (DERMAL-RAT) | 5 - 10 | 111-46-6 | WEEL TWA = 10 MG/M3 |
| 2,4-PENTANEDIONE LD50: 590-1,410 MG/KG (ORAL-RAT) LD50: 793-4,850 MG/KG (DERMAL-RABBIT) LC50: 1,224 PPM (4-HR.- INHALATION-RAT) | 1 - 5 | 123-54-6 | NE |
| ACETIC ACID LD50: 3,200 - 3,880 MG/KG (ORAL-RAT) LD50: 1,060 MG/KG (DERMAL - RABBIT) LC50: 11.4 MG/L (4-HR.-INHALATION-RAT) | 0.5 - 1.5 | 64-19-7 | ACGIH TWA = 10 PPM ACGIH STEL = 15 PPM |
| HYDROGEN PEROXIDE LD50: 805 MG/KG (ORAL-RAT) LD50: >6,500 MG/KG (DERMAL - RABBIT) | 0.5 - 1.5 | 7722-84-1 | ACGIH TWA = 1 PPM |

ADDITIONAL INGREDIENT INFORMATION (WHMIS NOT CONTROLLED):
NA

NA - NOT APPLICABLE

NE - NOT ESTABLISHED

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| | |
|----------------------------------|------------------------------------|
| PHYSICAL STATE: | LIQUID |
| ODOUR AND APPEARANCE: | LIGHT YELLOW LIQUID, KETONE ODOUR. |
| ODOUR THRESHOLD: | NE |
| SPECIFIC GRAVITY/DENSITY (G/ML): | 1.07 |
| VAPOUR PRESSURE: | NE |
| VAPOUR DENSITY (AIR=1): | NE |
| VOLATILITY/VOL(%): | NE |
| SOLUBILITY IN H2O: | SOLUBLE |
| EVAPORATION RATE: | NE |
| BOILING POINT: | NE |
| FREEZING POINT: | <-50°C |
| PH: | NA |
| LOG KOW: | NE |

SHIPPING INFORMATION

UN 3105, 5.2, II, ORGANIC PEROXIDE TYPE D, LIQUID (ACETYL ACETONE PEROXIDE, <=42%).

FIRE AND EXPLOSION HAZARD

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| FLAMMABILITY: | NOT FLAMMABLE. |
| CONDITIONS: | WILL BURN AT ELEVATED TEMPERATURES. |
| MEANS OF EXTINCTION: | WATER SPRAY, FOAM OR DRY CHEMICAL. |
| FLASHPOINT: | 101°C / 214°F (SETA CC) |
| UPPER EXPLOSION LIMIT (% V): | NE |
| LOWER EXPLOSION LIMIT (%V): | NE |
| AUTO-IGNITION TEMPERATURE: | 54°C / 129°F (42 LB CTN) (SELF ACCELERATING DECOMPOSITION TEMPERATURE). |
| HAZARDOUS COMBUSTION PRODUCTS: | OXIDES OF CARBON. |
| EXPLOSION DATA: | CONTAMINATION, TEMPERATURE – CAN DECOMPOSE WITH FORCE IF CONFINED DURING EXPOSURE TO FIRE. IF LARGE AMOUNT IS INVOLVED, EVACUATE AREA AND FIGHT FIRE FROM SAFE DISTANCE. COOL SURROUNDING MATERIAL WITH WATER. |
| SENSITIVITY TO IMPACT: | NO |
| SENSITIVITY TO STATIC DISCHARGE: | NO |

REACTIVITY

| | |
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| CHEMICAL STABILITY: | UNSTABLE |
| INCOMPATIBLE MATERIALS: | STRONG ACIDS, ALKALIS, OXIDIZERS, REDUCING AGENTS, AMINES, PROMOTERS/ACCELERATORS. |
| CONDITIONS OF REACTIVITY: | EXCESSIVE/HIGH HEAT AND CONTAMINATION WITH OTHER CHEMICALS. |
| HAZARDOUS DECOMPOSITION PRODUCTS: | DECOMPOSITION PRODUCTS ARE FLAMMABLE. |

HEALTH HAZARD INFORMATION

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|------------------|---|
| ROUTE OF ENTRY | |
| SKIN CONTACT: | MAY CAUSE SEVERE IRRITATION. |
| SKIN ABSORPTION: | MAY BE HARMFUL. |
| EYE: | MAY CAUSE SEVERE IRRITATION. |
| INGESTION: | MAY BE HARMFUL IF SWALLOWED. |
| INHALATION: | MAY CAUSE RESPIRATORY TRACT IRRITATION. |

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ACUTE OVER EXPOSURE EFFECTS: NE
CHRONIC OVER EXPOSURE EFFECTS: MAY CAUSE KIDNEY, LIVER, THYMUS AND NERVOUS SYSTEM INJURY.
SENSITIZATION: MAY CAUSE ALLERGIC SKIN REACTION.
CARCINOGENICITY: DOES NOT MEET WHMIS CRITERIA.
TERATOGENICITY: DOES NOT MEET WHMIS CRITERIA.
MUTAGENICITY: DOES NOT MEET WHMIS CRITERIA.
REPRODUCTIVE TOXICITY: DOES NOT MEET WHMIS CRITERIA.

PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: WEAR SAFETY GOGGLES AND USE IMPERVIOUS GLOVES. WHERE AIRBORNE EXPOSURE IS LIKELY, WEAR A NIOSH APPROVED RESPIRATOR.
SPECIFIC ENGINEERING CONTROLS: LOCAL EXHAUST IS RECOMMENDED.
LEAK AND SPILL PROCEDURES: SOAK UP WITH AN ABSORBENT MATERIAL AND PLACE IN A CLOSED CONTAINER. WET DOWN 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 TO MAINTAIN STABILITY AND ACTIVE OXYGEN CONTENT.

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. INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONEL. 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): 09/24/92
DATE REVISED (MM/DD/YY): 04/06/10

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

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