

ATO
ATOACHEM

OC 344-005

UPDATE 9/12/91

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ATOACHEM CODE: 129

REVISION DATE: 04/12/91
SUPERSEDES FORM DATED: 01/25/91

TRADENAME: LUPERSOL DDM-9
CHEMICAL NAME: METHYL ETHYL KETONE PEROXIDE
MOLECULAR FORMULA: MIXTURE OF C4H10O4 AND C8H18O6
CHEMICAL FAMILY: ORGANIC PEROXIDE
SYNONYMS: 2-BUTANONE PEROXIDE
C.A.S. REGISTRY NUMBER(S): PEROXIDE: 1338-23-4
DMP: 131-11-3
MEK: 78-93-3
HEXYLENE GLYCOL: 107-41-5
H2O2: 7722-84-1

HAZARDOUS INGREDIENTS

MATERIALS OR COMPONENTS	RQ	LBS	% W/W	HAZARD DATA
METHYL ETHYL KETONE PEROXIDE STRUCTURES ACCOUNT FOR 8.8 +/- 0.1% ACTIVE OXYGEN				PEL 1990 = 0.7 PPM (CEILING)
		10	35.0	
DIMETHYL PHTHALATE**		5000	32.0	TLV 1981 = 5 MG/M3 (TWA)
HEXYLENE GLYCOL			6.0	TLV 1977 = 25 PPM (TWA)
METHYL ETHYL KETONE**		5000	3.0	TLV 1976 = 200 PPM (TWA)
HYDROGEN PEROXIDE			0.7	TLV 1986 = 1 PPM (TWA)

**THIS PRODUCT CONTAINS TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.

SHIPPING INFORMATION

D.O.T. SHIPPING NAME: ORGANIC PEROXIDE TYPE D, LIQUID
HARD CLASSIFICATION: ORGANIC PEROXIDE
FREIGHT CLASSIFICATION: CHEMICALS NOIBN
I.D. NUMBER: UN3105
IMDG CODE PAGE: 5225

PHYSICAL PROPERTIES

MELTING/FREEZING POINT, DEG. C: BELOW -30
MOLECULAR WEIGHT: N/A
SPECIFIC GRAVITY (H2O = 1), 25/25 DEG. C: 1.0840 MIN
*S.A.D.T.: 70 DEG. C, 45# CUBE
SOLUBILITY IN H2O: SLIGHT
VAPOR PRESSURE: N/E
VAPOR DENSITY (AIR=1): N/E
% VOLATILES BY VOLUME: N/E
APPEARANCE & ODOR: CLEAR OILY LIQUID, KETONE ODOR

* SELF ACCELERATING DECOMPOSITION TEMPERATURE

FIRE AND EXPLOSION DATA

FLASH POINT, DEG. C/DEG. F: 58/137
EXTINGUISHING MEDIA: WATER SPRAY, WATER FOG, DRY CHEMICAL, FOAM
SPECIAL FIRE FIGHTING PROCEDURES: IF LARGE AMOUNT IS INVOLVED, EVACUATE AREA AND FIGHT FIRE FROM SAFE DISTANCE. COOL SURROUNDING MATERIAL WITH WATER.
UNUSUAL FIRE & EXPLOSION HAZARDS: CONTAMINATION, TEMPERATURE - CAN DECOMPOSE WITH FORCE IF CONFINED DURING EXPOSURE TO FIRE.

REACTIVITY DATA

STABILITY: UNSTABLE

CONDITIONS CONTRIBUTING TO INSTABILITY: THERMAL DECOMPOSITION,
CONTAMINATION

INCOMPATIBILITY (AVOID CONTACT WITH): STRONG ACIDS, STRONG ALKALIS, STRONG
OXIDIZERS, ACETONE, TRANSITION METAL SALTS, PROMOTERS AND REDUCING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: DECOMPOSITION PRODUCTS ARE FLAMMABLE AND
MAY AUTOIGNITE

CONDITIONS TO AVOID: HEAT, FLAMES, SPARKS, IGNITION SOURCES,
CONTAMINATION.

SPILL OR LEAK

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: USE ABSORBENT
MATERIAL, SWEEP OR SCOOP UP USING NON-SPARKING TOOLS AND DISPOSE OF
IMMEDIATELY.

WASTE DISPOSAL METHOD: CONSULT WITH AN ATOCHEM REPRESENTATIVE FOR THE
TELEPHONE NUMBER OF YOUR STATE'S HAZARDOUS WASTE AGENCY.

TOXICITY

ORAL (ACUTE) (RATS): LD50 = 484 MG/KG

INTRAPERITONEAL (ACUTE) (RATS): LD50 = 65 MG/KG

INHALATION (ACUTE) (RATS): LC50 = 200 PPM (4 HOURS)

SUBCHRONIC: THRICE WEEKLY DOSINGS (RATS) AT ONE-FIFTH OF LD50 FOR 7 WEEKS
CAUSED TWO OUT OF FIVE DEATHS IP AND FIVE OUT OF FIVE DEATHS ORALLY. LIVER
DAMAGE WAS NOTED.

AMES TEST: MUTAGENIC IN SOME STRAINS OF SALMONELLA.

HEALTH HAZARD INFORMATION

EFFECTS OF EXPOSURE:

IRRITATION: SKIN - SEVERE
EYE - SEVERE

SENSITIZATION: N/E

INHALATION EFFECTS: IRRITATING TO AIRWAYS & LUNGS

CORROSIVITY: SKIN - N/E
EYE - MAY CAUSE BLINDNESS

LUNG EFFECTS: IRRITANT

OTHER: N/E

EMERGENCY FIRST AID:

INGESTION: DO NOT INDUCE VOMITING. GET EMERGENCY MEDICAL ATTENTION FOR LAVAGE.

DERMAL: FLUSH WITH SOAP AND WATER. GET MEDICAL ATTENTION.

EYE CONTACT: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: USE WITH ADEQUATE VENTILATION. LOCAL EXHAUST.

EYE: SAFETY GLASSES, GOGGLES, FACE SHIELD

HAND (GLOVE TYPE): NEOPRENE, NITRILE RUBBER

*RESPIRATOR TYPE: CAN OR CARTRIDGE, GAS OR VAPOR

OTHER PROTECTIVE EQUIPMENT: EYEWASH STATION

*USE ONLY NIOSH/MESA APPROVED EQUIPMENT

LABEL PRECAUTIONS

PRECAUTIONARY LABELING: WASH THOROUGHLY AFTER HANDLING
DO NOT GET IN EYES, ON SKIN OR CLOTHING
DO NOT STORE NEAR COMBUSTIBLES
EMPTY CONTAINER MAY CONTAIN HAZARDOUS RESIDUES
KEEP CONTAINER CLOSED
KEEP AWAY FROM HEAT, SPARKS, AND FLAMES
DO NOT REUSE CONTAINER

OTHER STORAGE AND HANDLING CONDITIONS: STORE BELOW 100 DEG. F (38 DEG. C) TO MAINTAIN ACTIVE OXYGEN CONTENT.

PREPARED BY: MARKETING SERVICES DEPARTMENT

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NOTES: N/E = NOT ESTABLISHED
N/A = NOT APPLICABLE

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