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DATE: 09/11/90 INDEX: 259023300+9 ACCT: \$16870-99 CAT NO: \$79917

PO NBR: P0004696

##BENZOPHENONE## ##BENZOPHENONE# ##BENZOPHENONE#

MATERIAL BAFETY DATA SHEET

ISHER BCIENTIFIC HEMICAL DIVISION 1 REAGENT LANE FAIR LAWN NJ U7+10 (201) 796-7100

EMERGENCY CONTACTS: GASTON L. PILLORI: (201) 796-7100 AFTER BUSINESS HOURS; HOLIDAYS: (201) 796-7523 CHEMTREC ASSISTANCE: (800) 424-9300

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SUBSTANCE IDENTIFICATION

CAS-NUMBER 119-61-9

SUBSTANCE: **BENZOPHENONES*

TRADE NAMES/SYNONYMS: BENZOYLBENZENE, DIPHENYL KETONE, DIPHENYLMETHANONE, BENZOYLBENZENE, DIPHENYL KETONE, DIPHENYLMETHANONE, ALPHA-OXODIPHENYLMETHANE, ALPHA-OXODITANE, PHENYL KETONE, LC-OXO-DITANE, LC-OXODIPHENYLMETHANE, B-270, ACC027+0

CHEMICAL FAMILY, KETONE, AROMATIC

MOLECULAR FORMULA: C13-H10-O

MOLECULAR WEIGHT: 182, 23

CERCLA RATINGS (SCALE 0-3): HEALTH=2 FIRE=1 REACTIVITY=0 PERSISTENCE=1
NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=1 REACTIVITY=0

COMPONENTS AND CONTAMINANTS

COMPONENT: BENZOPHENONE CAS# 119-61-9

PERCENT: 100

OTHER CONTAMINANTS: NONE

NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY OSHA, ACCIH, OR NIOSH.

PHYSICAL DATA

DESCRIPTION: COLORLESS TO WHITE ORTHORHOMBIC BISPHENOIDAL PRISMS WITH A

GERANIUM OR ROSE-LIKE ODOR. BOILING POINT: 581 F (305 C)

MELTING POINT: 120-124 F (49-51 C) SPECIFIC GRAVITY: 1,1108

SOLUBILITY IN WATER: INSOLUBLE

SOLVENT SOLUBILITY: ALCOHOL, ETHER, ACETONE, BENZENE, CHLOROFORM

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD: SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

FLASH POINT: >230 F (>110 C) (CC)

FIREFIGHTING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY OR ALCOHOL FOAM (1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800. 4).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR ALCOHOL FOAM (1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800. 4).

FIREFIGHTING:

EXTINGUISH WITH AGENT SUITABLE FOR TYPE OF SURROUNDING FIRE.

TOXICITY

BENZOPHENONE, 2895 MG/KG ORAL-MOUSE LDS0; 727 MG/KG INTRAPERITONEAL-MOUSE LDS0; CARCINOGEN BIATUS: NONE. BENZOPHENONE IS AN EYE, MUCOUS MEMBRANE AND SKIN IRRITANT AND A SKIN BENSITIZER.

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HEALTH EFFECTS AND FIRST AID

ACCT: CAT NO: 579917

INHALATION: BENZOPHENONE:

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KRITANI. ACUTE EXPOSURE- INHALATION MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT. CHRONIC EXPOSURE- REPEATED OR PROLONGED EXPOSURE MAY CAUSE MUCOUS MEMBRANE IRRITATION.

416870-99

FIRST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTITICIAL RESPIRATION. KEEP PERSON WARM AND AIR REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: BENZOPHENONE: IRRITANT/SENSITIZER.

RRITANT/SENSITIZER,
ACUTE EXPOSURE, CONTACT WITH THE SKIN MAY CAUSE IRRITATION, SENSITIZATION
DERMATITIS MAY OCCUR IN PERSONS PREVIOUSLY EXPOSED,
CHRONIC EXPOSURE, ALTHOUGH SENSITIZATION REACTIONS ARE RARE, BOTH CONTACT
DERMATITIS AND URTICARIA HAVE BEEN REPORTED, THIS PRODUCT HAS BEEN USED AS A SUNSCREEN.

FIRST AID- REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EYIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:

EYE CONTACT:
BENZOPHENONE;
IRRITANT.
ACUTE EXPOSURE- CONTACT WITH THE EYES MAY CAUSE IRRITATION.
CHRONIC EXPOSURE- REPEATED OR PROLONGED EXPOSURE MAY CAUSE CONJUNCTIVITIS.

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: BENZOPHENONE:

ACUTE EXPOSURE- INGESTION MAY CAUSE GASTROINTESTINAL DISTURBANCES WITH NAUSEA AND VOMITING. A MODERATE DOSE WAS LETHAL TO MICE TESTED. CHRONIC EXPOSURE- NO DATA AVAILABLE.

FIRST AID- TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY. IF VOMITING OCCURS, KEEP HEAD LOWER THAN HIPS TO PREVENT ASPIRATION.

NO SPECIFIC ANTIDOTE, TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

------REACTIVITY

REACTIVITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:

BENZOPHENONE: STRONG OXIDIZERS: INCOMPATIBLE.

DECOMPOSITION: THERMAL DECOMPOSITION MAY RELEASE TOXIC AND/OR HAZARDOUS GASES.

POLYMERIZATION:

HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

CONDITIONS TO AVOID

MAY BURN BUT DOES NOT IGNITE READILY. AVOID CONTACT WITH STRONG OXIDIZERS, EXCESSIVE HEAT, SPARKS, OR OPEN FLAME.

BERRESERENCE SERVICE S

PUPATIONAL SPILL! 'EEP UP AND PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER LEPOSAL, DO NOT FLUSH SPILLED MATERIAL INTO SEVER, KEEP UNNECESSARY PEOPLE

PROTECTIVE EQUIPMENT

VENTILATION: PROVIDE LOCAL EXHAUST OR GENERAL DILUTION VENTILATION SYSTEM.

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PO NBRI PODDITESS Benzophenone

DUST AND MIST RESPIRATOR WITH A FULL FACEPIECE.

- AIR-PURIFYING FULL FACEPIECE RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.
- POWERED AIR-PURIFYING RESPIRATOR WITH A TIGHT-FITTING FACEPIECE AND HIGH-EFFICIENCY PARTICULATE FILTER.
- TYPE 'C' BUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE OR WITH A FULL FACEPIECE, HELMET OR HOOD OPERATED IN CONTINUOUS-FLOW MODE.
- SELF-CONTAINED SREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.
- FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:
- SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.
- SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE AND OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

CLOTHING: EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT To prevent repeated or prolonged skin contact with this substance,

GLOVES: EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS Substance.

EYE PROTECTION, EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES TO PREVENT EYE CONTACT WITH THIS SUBSTANCE,

MERGENCY EYE WASH: WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES MAY EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH OUNTAIN WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

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