PAGE 01 OF 03

\*\*DIMETHYL GLYOXIME\*\*

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## MATERIAL SAFETY DATA SHEET

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## SUBSTANCE IDENTIFICATION

CAS-NUMBER 95-45-4

SUBSTANCE: ##DIMETHYL GLYOXIME##

TRADE NAMES/SYNONYMS: 2,3-BUTANEDIONE, DIOXIME; BIACETYL, DIOXIME; DIACETYLDIOXIME; 2,3-DIISONITROSOBUTANE; D-62;

CHEMICAL FAMILY: OXIME

MOLECULAR FORMULA: C4-H8-N2-02 MOL WT: 116,12

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

COMPONENTS AND CONTAMINANTS

COMPONENT: DIMETHYL GLYOXIME

PERCENT: 100

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:
NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY OSHA, ACGIH, OR NIOSH.

PHYSICAL DATA

DESCRIPTION: ODORLESS WHITE CRYSTALS BOILING POINT: 275 F (246 C)

MELTING POINT: 453 F (234 C) SOLUBILITY IN WATER: 0.06%

SOLVENT SOLUBILITY: ALCOHOL, ETHER, ACETONE, PYRIDINE

FIRE AND EXPLOSION DATA

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

FIREFIGHTING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY OR STANDARD FOAM
(1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4).

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

FIREFIGHTING:
NO ACUTE HAZARD. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. AVOID BREATHING VAPORS OR DUSTS; KEEP UPWIND.

TOXICITY

DIMETHYL GLYOXIME: 250 MG/KG ORAL-RAT LDLO; MUTAGENIC DATA (RTEC); CARCINOGEN STATUS: NONE, DIMETHYL GLYOXIME IS TOXIC AND MAY BE IRRITATING TO THE EYES, SKIN AND MUCOUS MEMBRANES.

HEALTH EFFECTS AND FIRST AID

INHALATION:
DIMETHYL GLYCXIME:
ACUTE EXPOSURE- NO DATA AVAILABLE, MAY BE IRRITATING.
CHRONIC EXPOSURE- NO DATA AVAILABLE.

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

11

11

PAGE 02 OF 03

\*\*DIMETHYL GLYOXIME\*\*

SKIN CONTACT:
DIMETHYL GLYOXIME:
DIMETHYL GLYOXIME:
DOUTE EXPOSURE: NO DATA AVAILABLE, MAY BE IRRITATING. CHRONIC EXPOSURE- NO DATA AVAILABLE.

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

EYE CONTACT:

DIMETHYL GLYOXIME:
ACUTE EXPOSURE- NO DATA AVAILABLE, MAY BE IRRITATING. CHRONIC EXPOSURE- NO DATA AVAILABLE.

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:

DIMETHYL GLYOXIME:

TOXIC

ACUTE EXPOSURE- LOW DOSES WERE REQUIRED TO KILL SOME OF THE RATS TESTED, HOWEVER, SYSTEMIC AFFECTS WERE NOT REPORTED. CHRONIC EXPOSURE- NO DATA AVAILABLE.

TRST AID- TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION AND ADVICE IMMEDIATELY ON WHETHER TO USE GASTRIC LAVAGE. GASTRIC LAVAGE PERFORMED BY QUALIFIED MEDICAL PERSONNEL MAY BE SUITABLE IF THERE ARE NO SIGNS OF PERFORATION. FIRST AID-

ANTIDOTE:

NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

REACTIVITY

REACTIVITY:

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:

DIMETHYL GLYOXIME: NO DATA AVAILABLE.

DECOMPOSITION:

THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF NITROGEN.

POLYMERIZATION:

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

CONDITIONS TO AVOID

NONE REPORTED.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL: SWEEP UP AND PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER DISPOSAL, DO NOT FLUSH WITH WATER, KEEP UNNECESSARY PEOPLE AWAY,

PROTECTIVE EQUIPMENT

VENTILATION: PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION SYSTEM.

RESPIRATOR:

RESPIRATOR:
THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON THE CONTAMINATION LEVELS
FOUND IN THE WORK PLACE, MUST NOT EXCEED THE WORKING LIMITS OF THE
RESPIRATOR AND BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR
OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH OCCUPATIONAL ADMINISTRATION,

THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON THE DATA FOUND IN THE PHYSICAL DATA, HEALTH EFFECTS AND TOXICITY SECTIONS. THEY ARE RANKED IN ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION:

TYPE 'C' SUPPLIED-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 CONTINGUS-FLOW MODE.

SELF-CONTAINED BREATHING APPARATUS WITH A FULL FAC PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE. FACEPIECE OPERATED IN

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.

\*\*DIMETHYL GLYOXIME\*\*

PAGE 03 OF 03

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. CONTACT LENSES SHOULD NOT BE WORN.

AUTHORIZED - FISHER SCIENTIFIC GROUP, INC. CREATION DATE: 11/19/8+ REVISION DATE: 10/12/88

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1