

**DIMETHYL GLYOXIME, DISO

PAGE 01 OF 04

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MATERIAL SAFETY DATA SHEET

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SUBSTANCE IDENTIFICATION

CAS-NUMBER 75006-64-3

SUBSTANCE: **DIMETHYL GLYOXIME, DISODIUM SALT**

TRADE NAMES/SYNONYMS:

2,3-BUTANEDIONE, DIOXIME, DISODIUM SALT; D-61; ACC07727

CHEMICAL FAMILY:
OXIME

MOLECULAR FORMULA: C4-H6-O2-N2-NA2.8H2O

MOLECULAR WEIGHT: 304.21

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

COMPONENTS AND CONTAMINANTS

COMPONENT: DIMETHYL GLYOXIME, DISODIUM SALT

PERCENT: 100

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:
NONE ESTABLISHED

PHYSICAL DATA

DESCRIPTION: WHITE CRYSTALLINE POWDER SOLUBILITY IN WATER: SOLUBLE

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:
NEGLECTIBLE FIRE AND NEGLECTIBLE EXPLOSION HAZARD IN DUST FORM WHEN EXPOSED TO

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HEAT OR FLAME.

FLASH POINT: NOT APPLICABLE

FIREFIGHTING MEDIA:

DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM
(1984 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.3).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR ALCOHOL FOAM
(1984 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.3).

FIREFIGHTING:

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

TOXICITY

200 MG/KG INTRAPERITONEAL-MOUSE LD50 (EASTERN CHEMICAL); CARCINOGEN STATUS:
NONE.

DIMETHYL GLYOXIME, DISODIUM SALT IS HIGHLY TOXIC INTRAPERITONEALLY AND MAY
BE IRRITATING TO THE EYES, MUCOUS MEMBRANES AND SKIN.

HEALTH EFFECTS AND FIRST AID

INHALATION:

ACUTE EXPOSURE- INHALATION OF DUST OR MIST MAY CAUSE IRRITATION OF RESPIRA-
TORY TRACT AND MAY CAUSE TOXIC EFFECTS.

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.
GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

ACUTE EXPOSURE- DUST, MIST OR SOLUTION MAY IRRITATE SKIN.

CHRONIC EXPOSURE- NO DATA AVAILABLE.

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

EYE CONTACT:

ACUTE EXPOSURE- DUST, SOLUTION OR MIST MAY CAUSE EYE IRRITATION.

CHRONIC EXPOSURE- NO DATA AVAILABLE.

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

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INGESTION:

ACUTE EXPOSURE- NO EFFECTS REPORTED IN HUMANS. ESTIMATED TO HAVE TOXIC EFFECTS. MAY IRRITATE THE GASTROINTESTINAL TRACT.

FIRST AID- IF PERSON IS CONSCIOUS, IMMEDIATELY GIVE LARGE QUANTITIES OF WATER AND INDUCE VOMITING. DO NOT MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK ANYTHING. MAINTAIN AIRWAY AND GIVE OXYGEN IF RESPIRATION IS DEPRESSED. GET MEDICAL ATTENTION.

REACTIVITY

REACTIVITY:

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:

STRONG OXIDIZERS.

DECOMPOSITION:

THERMAL DECOMPOSITION MAY RELEASE TOXIC OXIDES OF CARBON AND NITROGEN.

POLYMERIZATION:

WILL NOT OCCUR.

CONDITIONS TO AVOID

AVOID HEATING SINCE THE EXTENT OF THERMAL STABILITY IS NOT KNOWN. AVOID CONTACT WITH OR STORAGE WITH INCOMPATIBLE MATERIALS, INCLUDING THOSE LISTED IN THE REACTIVITY SECTION.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:

KEEP HEAT AND IGNITION SOURCES AWAY. PROVIDE VENTILATION. SWEEP UP AND PUT IN A SUITABLE CONTAINER, E.G. FIBERBOARD, FOR LATER DISPOSAL. KEEP OUT OF SEWERS, WATERWAYS AND OTHER WATER SOURCES.

PROTECTIVE EQUIPMENT

VENTILATION:

PROVIDE LOCAL EXHAUST OR GENERAL DILUTION VENTILATION SYSTEM.

RESPIRATOR:

HIGH LEVELS- DUST/MIST RESPIRATOR.

FIRE FIGHTING- SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE

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 WHENEVER THERE IS REASONABLE PROBABILITY OF CONTACT WITH THIS SUBSTANCE.

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04434

EYE PROTECTION:

EYE PROTECTION NOT REQUIRED, BUT ADVISABLE. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH CHEMICALS.

AUTHORIZED - FISHER SCIENTIFIC GROUP, INC.
CREATION DATE: 03/26/85 REVISION DATE: 06/23/86

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