
SECTION V - HEALTH HAZARD DATA

ACGIH-TLV: 25 ppm
OSHA - PEL: 25 ppm
ixie Chemical Internal
Exposure guideline: 2 ppm 8 hr. TWA

Eye Contact: Vapors cause eye irritation. Liquid causes severe irritation or chemical burns.

Skin Contact: Exposure causes severe chemical burns. Burns may be delayed. Glycidol is readily absorbed through skin. (Rabbit/Skin LD50:1980 mg/kg).

Ingestion: Ingestion of Glycidol may cause irritation of the gastrointestinal tract and central nervous system depression. (Rat/oral LD50:420 mg/kg).

Inhalation: Vapors cause nose and throat irritation. Prolonged concentrations of vapor may cause narcosis. Exposure of this nature is unlikely due to the low vapor pressure of Glycidol. (Rate LC50:580 ppm/8H).

Other Health Effects: There is clear evidence that Glycidol is carcinogenic in experimental animals. A 2 year gavage study using rats and mice, both male and female produced a variety of neoplasms at numerous tissue sites.

Glycidol or one of its metabolites has been shown, following oral dosing of experimental rodents to reduce sperm motility and cause infertility (which may be reversible) in male rats. Long-term oral administration has also been shown to cause neoplastic growth in and arising from the male reproductive organs.

First Aid Procedures: In case of contact, immediately flush eyes or skin with water for at least 15 minutes. Remove contaminated clothing. If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Call a physician. If swallowed immediately call a physician. Treatment of blisters by Physician - Draw off fluid avoiding other parts of skin, cover with 1% silver sulfadiazine and sterile dressing.

SECTION VI - REACTIVITY DATA

Chemical Stability: Stable under proper storage conditions.
Conditions to Avoid: Store at 30 F or below to prevent polymerization.

Incompatible Materials: Avoid contact with strong acids or alkalis and metal halides such as stannic and ferric chlorides.

Decomposition Products: Glycerine and/or polyglycidol.

Hazardous Polymerization: May occur. CONFIDENTIAL:

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No. 91-1145

SECTION VII - SPILL OR LEAK PROCEDURE

For Spill: For non contained spills flood with water. Small laboratory quantities (1 kilo or less) may be converted to glycerine with less than 0.1% glycidol by diluting into a ten fold excess of water, adjusting the pH to 4 or less with sulfuric acid, and allowing to stand for three days. A lower pH, more water, and heat will accelerate the process. For spills greater than 1 kilo contact Dixie Chemical. Handle waste consistent with federal, state and local regulations.

Waste Disposal: Follow federal, state and local regulations for proper disposal.

SECTION VIII - SPECIAL PROTECTION

Respiratory Protection: NIOSH approved respiratory protection for organic vapors. In case of fire, wear self contained breathing apparatus for rescue.

Ventilation: Use local ventilation to remove vapors at the source. Do not rely on general exhaust.

Protective Gloves: Impervious gloves (PVC or Nitrile) taped to protective clothing.

Ey Protection: Chemical goggles and face shield.

Other Protective Equipment: Wear chemical resistant clothing to avoid skin contact.

SECTION IX - OTHER INFORMATION

DOT Shipping Name: Oxidizer N.O.S.

DOT Hazard Class: Oxidizer, UN 1479

Shipping Container: Drums - DOT GD, Poly Pak

Precautions: For maximum stability, store below 30 degrees F. Keep away from heat, sparks and flame. If heated exothermic reaction may occur causing autoignition.

Avoid contact with eyes and skin.

Avoid breathing vapors.

When handling wear goggles, rubber gloves and protective clothing.

Keep container closed.

Carcinogenic information was obtained from the National Toxicology Program (NTP) Technical Report No. 374.

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