

DeOderol™

1. Identification

Product Name: DeOderol™

Item #: DO0717

Synonyms: N/A

Recommended Use:

Manufacturer:

Cancer Diagnostics, Inc.
116 Page Point Circle
Durham, NC 27703
1-877-846-5393

Restrictions on Use: N/A

In Case of Emergency:

Chemtrec US 1-800-424-9300
Infotrac International 1-352-323-3500

2. Hazards Identification

OSHA Hazard Classification(s):

Serious eye damage/irritation - Category 2A

Signal Word: Warning

Hazard Statement(s): Causes serious eye Irritation.

Pictogram(s):



Precautionary Statement(s): Prevention: Wash hands thoroughly after handling. Wear eye protection/ face protection.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: N/A

Disposal: Dispose of contents/container in accordance with local regulations.

Descriptions of Hazards not otherwise classified: N/A

Percent of mixture with unknown acute toxicity: N/A

3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
1,2-Benzisothiazolin-3-one		2634-33-5	0.15 – 0.35

4. First Aid Measures

Eye Contact: Immediately flush eyes with lots of running water for 15 minutes, if irritation persists get immediate medical attention.

Skin Contact: Immediately wash skin with soap and water. If irritation persists get medical attention.
If skin irritation occurs: Get medical advice/attention.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

Ingestion: If conscious, immediately induce vomiting by giving 2 glasses of water and sticking a finger down the throat. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person. Keep the victim's head below his hips while vomiting so he does not breathe the vomitus into his lungs.

Symptoms: May be harmful by inhalation, ingestion, or skin absorption. Direct mist is irritating to the eyes, mucous membranes and upper respiratory tract. Prolonged contact can cause skin irritation.

Recommendations for immediate medical care/special treatment: If any symptoms are observed, contact a physician and give them this SDS sheet.

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5. Fire- Fighting Measures

Extinguishing Media:

Suitable Extinguishing Media: Use Dry Chemical, CO₂ or Alcohol Foam.

Unsuitable Extinguishing Media: Do not use water jet

Fire Hazards (Chemical): Emits toxic fumes under fire conditions. Combustion products – Carbon monoxide or carbon dioxide

Special Protective Equipment and Precautions for Firefighters: Full protective clothing and NIOSH-approved self-contained breathing apparatus should be worn. Use water to cool exposed containers.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of mists. Wear appropriate protective equipment, such as respirator with proper particulate filters, gloves, goggles and protective clothing, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Protective Equipment: See section 8

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Containment and Clean-Up Procedures: Information provided here is in the event of a major spill of 55 gallons or more. Wear protective equipment including rubber boots, rubber gloves, rubber apron, and a self-contained breathing apparatus in the pressure demand mode or a supplied-air respirator. If the spill or leak is small, a full-face piece air-purifying cartridge respirator equipped for organic vapors may be satisfactory. In any event, always wear eye protection.

For small spills or drips, mop or wipe up and dispose of in DOT-approved waste containers. For large spills, contain by diking with soil or other non-combustible absorbent materials, and then pump into DOT-approved waste containers, or absorb with non-combustible sorbent material, place residue in DOT-approved waste containers. Keep out of storm drains, surface waters, and soil.

7. Handling and Storage

Handling: Use in a well-ventilated area. Avoid inhalation, and contact of mists or liquid with eyes, skin, and clothing. Avoid repeated or prolonged exposure. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Storage: Keep container tightly closed. Keep away from heat, open flame, and strong oxidizing agents. Maintain good housekeeping. Keep out of direct sunlight and in cool dry place. Store below 110°F (38°C) and above 32°F (0°C).

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

Reagent	PEL-STEL	OSHA PEL TWA
Hexylene Glycol	No data available	No data available
Isopropanol	No data available	400 ppm 980 mg/m ³
Nonylphenol, ethoxylated	No data available	No data available

US ACGIH Threshold Limit Values:

Reagent	TLV-TWA	TLV-STEL
Hexylene Glycol	25 ppm Ceiling	No data available
Isopropanol	200 ppm	400 ppm
Nonylphenol, ethoxylated	No data available	No data available

NIOSH Exposure Limits

Reagent	TWA	STEL
Hexylene Glycol	25 ppm 125 mg/m ³ Ceiling	No data available
Isopropanol	400 ppm 980 mg/m ³	500 ppm 1225 mg/m ³
Nonylphenol, ethoxylated	No data available	No data available

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Engineering Controls: General room ventilation should be adequate. Use sufficient natural or mechanical ventilation to keep mist level below the PEL where available.

Individual protection measures, such as personal protective equipment:

Eye/face protection: For most conditions none required; however if conditions of use are extreme and condition warrants wear goggles. It is general recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury. Eye protection should be compliant with OSHA regulations.

Skin and hand protection: None required in normal use conditions; however if conditions of use warrant protection wear long sleeved shirt, trousers, safety shoes, and gloves.

Respiratory protection: None required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate, use type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other: Have an eye wash facility available. Wash hands after handling, as well as any other affected skin areas. Avoid contact with food or food preparatory surfaces. If this occurs wash the area thoroughly with suitable detergent and water.

Thermal hazards: No data available.

9. Physical and Chemical Properties Section

Appearance: Clear, Liquid

Molecular Weight: N/A

Molecular Formula: N/A

pH: N/A

Boiling Point and Boiling Range: 242°F

Melting Point/Freezing Point: N/A

Flash Point: >240°F

Specific Gravity/Relative Density: N/A

Odor: Fresh Clean Scent

Odor Threshold: N/A

Color: Clear

Flammability (solid/gas): N/A

Vapor Density: N/A

Upper/Lower flammability or explosive limits: N/A

Vapor Pressure: N/A

Evaporation Rate: N/A

Partition Coefficient: n-octanol/water: N/A

Viscosity: N/A

Auto-ignition temperature: N/A

Solubility: 99%

Decomposition Temperature: N/A

10. Stability and Reactivity

Reactivity: Not chemically reactive.

Chemical Stability: Stable under normal ambient and anticipated conditions of use.

Conditions of Stability/Instability: No data available.

Stabilizers needed: None

Safety issue indicated by appearance change: N/A

Other: N/A

Hazardous Reactions: Not known.

Hazardous Polymerization: No data available.

Conditions to avoid: Heat, sparks, and open flames.

Classes of Incompatible Materials: Acids and oxidizing materials.

Hazardous Decomposition Products: May liberate carbon monoxide or carbon dioxide.

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11. Toxicological Information
Likely Routes of Exposure

Eyes: Liquid or mist directly in eyes will irritate the eyes.

Skin: Prolonged or repeated contact may irritate the skin.

Inhalation: Excessive inhalation of high concentrations may cause headaches, vomiting, and coma.

Ingestion: Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps and diarrhea, in extreme cases perhaps unconsciousness.

Symptoms related to the physical, chemical, and toxicological characteristics: May be harmful by inhalation, ingestion, or skin absorption. Direct mist is irritating to the eyes, mucous membranes and upper respiratory tract. Prolonged contact can cause skin irritation.

Delayed and immediate effects and chronic effects from short or long-term exposure: Prolonged or repeated exposure to high concentrations can produce severe or fatal CNS Depression.

Numerical measures of toxicity:
Ingredient Information:

Substance	Test Type (species)	Value
Hexylene Glycol	LD50 Oral (Rat)	3700 mg/kg
	LD50 Dermal (Rabbit)	7892 mg/kg
	LC50 Inhalation (Rat)	No data available
Isopropanol	LD50 Oral (Rat)	5045 mg/kg
	LD50 Dermal (Rabbit)	12800 mg/kg
	LC50 Inhalation (Rat)	16000 ppm (8h)
Nonylphenol, ethoxylated	LD50 Oral (Rat)	960 - 3980 mg/kg
	LD50 Dermal (Rabbit)	2000 - 2991 mg/kg
	LC50 Inhalation (Rat)	1.15 mg/l (4h)

Skin corrosion/irritation: Prolonged or repeated contact may irritate the skin.

Serious eye damage/eye irritation: Liquid or mist directly in eyes will irritate the eyes.

Respiratory sensitization: No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).

Skin sensitization: No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).

Germ cell mutagenicity: No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

Carcinogenicity: No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

Reproductive toxicity: No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

Specific target organ toxicity-Single exposure: No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).

Specific target organ toxicity-Repeat exposure: No information available on the mixture, however none of the components have been classified for STOT RE (or are below the concentration threshold for classification).

Aspiration hazard: No information available on the mixture, however none of the components have been classified for aspiration hazard (or are below the concentration threshold for classification).

Further information: No data available.

12. Ecological Information
Ecotoxicity:

Product data: None available

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Ingredient Information:

Substance	Test Type	Species
Hexylene Glycol	LC50 EC50 EC/LC50	Fish - <i>Pimephales promelas</i> (fathead minnow) Aquatic Invertebrates - <i>Daphnia magna</i> (Water flea) Algae
Isopropanol	LC50 LC50 EC/LC50	Fish - <i>Pimephales promelas</i> (fathead minnow) Aquatic Invertebrates - <i>Daphnia magna</i> (Water flea) Algae - <i>Desmodesmus subspicatus</i> (green algae)
Nonylphenol, ethoxylated	LC50 LC50 /LC50	Fish - <i>Pimephales promelas</i> (fathead minnow) Aquatic Invertebrates - <i>Daphnia magna</i> (Water flea) Bacteria

Persistence and degradability: N/A

Bioaccumulation Potential (octanol-water partition coefficient, BCF): N/A

Mobility in the soil: N/A

Adverse Environmental Effects: None known.

13. Disposal Considerations

Appropriate method of disposal of substance or preparation: Dispose of contaminate product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures. Empty containers can have residues, gases and mists and are subject to proper waste disposal, as above.

14. Transport Information

14.1 UN Number DOT, IATA,IMDG, ADR	DOT: Not Regulated for Transport by DOT. ADR/RID: Not Regulated for Transport by ADR/RID. IMDG: Not Regulated for Transport by IMDG. IATA: Not Regulated for Transport by IATA.
14.2 UN Proper Shipping Name DOT, IATA,IMDG, ADR	ADR/RID: Not Regulated for Transport by ADR/RID. IMDG: Not Regulated for Transport by IMDG. IATA: Not Regulated for Transport by IATA. DOT: Not Regulated for Transport by DOT.
14.3 Transport Hazard Class(es)	DOT: Not Regulated for Transport by DOT. IATA: Not Regulated for Transport by IATA. IMDG: Not Regulated for Transport by IMDG. ADR/RID: Not Regulated for Transport by ADR/RID.
14.4 Packing Group DOT, IATA,IMDG, ADR	ADR/RID: Not Regulated for Transport by ADR/RID. IMDG: Not Regulated for Transport by IMDG. IATA: Not Regulated for Transport by IATA. DOT: Not Regulated for Transport by DOT.
14.5 Environmental Hazards	Marine Pollutant: No
14.6 Special Precautions for User	Not applicable.

15. Regulatory Information

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All substances in this product are listed, as required, or are exempt from the TSCA inventory.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substance List, 40 CFR 302.4: This product does not contain chemicals listed on CERCLA.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370): Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372): None

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986): No components are listed on Prop 65.

Massachusetts Right to Know: Hexylene Glycol (2-Methylpentane-2,4-diol), Isopropyl Alcohol (2-Propanol) and Nonylphenol, ethoxylated are listed on the Massachusetts Right to Know List.

New Jersey Right to Know: Hexylene Glycol (2-Methylpentane-2,4-diol), Isopropyl Alcohol (2-Propanol) and Nonylphenol, ethoxylated are listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: Hexylene Glycol (2-Methylpentane-2,4-diol), Isopropyl Alcohol (2-Propanol) and Nonylphenol, ethoxylated listed on the Pennsylvania Right to Know List.

Canada WHMIS Hazard Class: D2B – Toxic Material

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16. Other Information

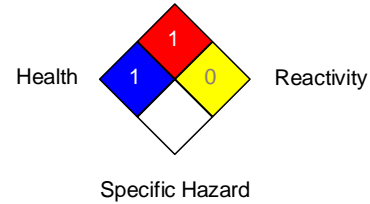
Revision Date: 2019-01-11

NFPA

Health	1
Fire Hazard	1
Reactivity	0
Specific Hazard	

National Fire Protection Association (USA) NFPA

Fire Hazard



HMIS

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.