



# SAFETY DATA SHEET

**Product Name: Di-Oxy Solv Plus**  
**SDS# 5038**

**Effective Date: June 1, 2015**  
**Revision 1A**

## **1. IDENTIFICATION**

Product Name: Di-Oxy Solv Plus™  
Product Type: Bactericide / Fungicide  
Manufacturer: Flo-Tec Inc.  
2151 34<sup>th</sup> Way N. Largo, Fl. 33771  
Office Number (727-531-8796)  
Emergency: Chemtrec: 800-424-9300  
(24 HOURS EVERY DAY)

## **2. HAZARDOUS COMPONENTS**

Peroxyacetic Acid 79-21-0 = <1%  
Hydrogen Peroxide 7722-84-1 = 26.5-27.5%

## **3. HEALTH HAZARDS DATA**

Health effects to over exposure to CONCENTRATE

- Corrosive to mucous membranes, eyes and skin
  - The seriousness of the lesions and the prognosis of intoxication depends directly on the concentration and duration of exposure.
  - *Skin*: May cause TEMPORARY skin discoloration and irritation.
  - *Eyes*: May cause severe eye damage.
  - *Ingestion*: HARMFUL OR FATAL: Causes; Corrosive to gastrointestinal tract, Paleness and cyanosis of the face, Bloating of stomach and belching, Nausea and vomiting, Risk of chemical pneumonitis and pulmonary edema.
  - *Inhalation*: Vapors or mist can cause irritation. People with asthma or other lung problems may be more affected.



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### **4. FIRST AID**

General recommendations:

- In case of product splashing in eyes, treat eyes first
- Submerge soiled clothing in water
- Contact physician in all cases

*Eyes:* Immediately flush with plenty of cool running water. Remove contact lenses. Continue flushing for at least 15 minutes, holding eyelids apart to ensure rinsing of the entire eye. Administer analgesic eyewash (oxybuprocaine). Call a physician immediately.

*Skin:* Immediately flush skin with plenty of cool, running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

*Ingestion:* Rinse mouth at once; then drink 1 or 2 large glasses of water or milk. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person. Take person to the hospital.

*Inhalation:* Immediately move the person to fresh air.

### **5. FIRE AND EXPLOSION DATA**

- Special fire hazards: Product (concentrate) can decompose and will release oxygen thereby adding to the fire hazard.
- Fire fighting method: Product is not flammable and can be quickly diluted with clean water.
- Oxidizing Agent: May cause spontaneous ignition with oxidizing agents.

### **6. SPILL OR LEAK PROCEDURES**

- Cleanup: Rinse small amounts to drain when possible. Dike or dam large spills, pump to containers or soak in inert absorbent. Flush residue to sanitary sewer, rinse area thoroughly with clean water.
- Avoid materials that are incompatible with concentrate.
- Waste Disposal: Consult state and local authorities for restrictions on disposal of chemical wastes. Unused product (concentrate) is classified as a (D002) by RCRA criteria.



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## **7. HANDLING AND STORAGE**

- Never return product back to the original container.
- Keep concentrate away from reactive substances
- Prevent contact with organic materials
- Keep product in original container
- Store in cool, ventilated area
- Never use metal containers or spigots
- Use vented container
- Warn personnel of dangers of concentrated product

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

*Respiratory:* Avoid breathing mists or vapors of concentrate.

*Eyes:* Use chemical splash goggles when handling concentrate. For continued severe exposure, wear a face shield over the goggles.

*Skins:* Rubber gloves – protective or gauntlet type preferred when handling concentrate. Use aprons.

ACGIH TLV: 1PPM 8 HOUR TWA, 1.4 mg/m<sup>3</sup> TWA

OSHA PEL; 1PPM 8 HOURS TWA, 1.4 mg/m<sup>3</sup> TWA

*Respiratory protection:*

- NIOSH approved full-face respirator for excessive conditions
- Hand gloves for handling concentrate = butyl rubber
- Eye protection – chemical proof goggles/face shield for splash risk
- Skin protection – coveralls when handling concentrate

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

*Appearance:* Clear, colorless liquid

*Odor:* Pungent

*Freezing Point:* Not applicable, product decomposes

*Specific gravity:* 1.09

*pH:* 1.33

*Solubility:* Complete

*Decomposition temperature:* self-accelerating



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decomposition temperature >55° C

## **10. STABILITY AND REACTIVITY**

*Stability:* Stable under normal conditions, with slow oxygen release

*Conditions to avoid:* Heat / Direct Sunlight

*Materials to avoid:* Acids, Bases, Reducing Agents, Organic Materials, Metals & Salts of Metals

## **11. TOXICOLOGICAL INFORMATION**

*Acute Toxicology:*

- Oral route, LD50, rat 330 mg/kg. – Test substance: 7% solution
- Dermal route, LD50 rabbit, 1410 mg/kg. Test substance: 10% solution
- Inhalation, LD%, four hours, rat 4080 mg/kg. Test substance: 5% solution

*Irritation:*

- Rabbit, corrosive (eyes) Test substance: 4% solution
- Rabbit, corrosive (skin) Test substance: 5% Solution
- Rat, irritant (respiratory)

*Chronic Toxicity:*

- Dermal = > 0.12% solution, irritating effect
- Inhalation = > 5mg. M3, irritant
- Route of entry = Inhalation / ingestion

## **12. ECOLOGICAL INFORMATION**

Toxic to simple cell and aquatic organisms

Danger to the environment limited; due to product properties.

- No bioaccumulation
- Soil degradation = 99% in 20 minutes
- Considerable abiotic and biotic degradability
- Sediments = Non-significant absorption
- Weak persistence of degradation products
- Degradation products = water & oxygen

*Acute Ecotoxicity:*



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- Fish, Rainbow trout LC50, 48 hours > 40 mg/L
- Crustaceans, EC50, 48 hours 126.8 mg/l 1mg/L
- Bacteria, Pseudomonas aeruginosa, EC 100. 5 minutes, % 5mg/L

### **13. DISPOSAL CONSIDERATIONS**

- Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
- Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
- Triple rinse (or equivalent). Then offer for recycling or dispose in a sanitary landfill, or incineration, if allowed by state and local authorities by burning. Stay out of smoke.

### **14. TRANSPORTATION INFORMATION**

DOT Shipping Name: Hydrogen Peroxide, Aqueous Solutions With Not Less Than 20% But Not More Than 40% Hydrogen Peroxide (Stabilized As Necessary), 5.1(8), UN2014, PGII  
UN Number 2014

Hazard Class 5.1

Primary Hazard Label: Oxidizer

Subsidiary Risk Label: Corrosive

Packing Group II

Shipping Container: UN Certified vented polyethylene. 2.5, 5, 20,30, 55 gallon drums

### **15. Regulatory Information**

TSCA Inventory List Yes

CERCLA Hazardous Substance (40 CFR 302)

Listed substance: No

Unlisted substance: Yes

Characteristic: Corrosive



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Reportable Quantity: 1 pounds

NFPA Rating Health: 2 Flammability – 0 Reactivity 3 Special – OXY

HMIS Rating Health: 2 Flammability – 0 Reactivity -2 PPE – Required

Canadian WHMIS Classification: C - Oxidizing E - Corrosive

F - Dangerously Reactive

### **16. Other Information:**

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