

# SAFETY DATA SHEET

## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: 2,4-Dichlorophenoxyacetic Acid Solution (10 mg/mL)

PRODUCT NUMBER: D309

COMPANY INFO: PhytoTech Labs Inc.

14610 W 106th St. Lenexa, KS 66215

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EMERGENCY PHONE NUMBER 1-800-535-5053 - US Only (INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only.

RESTRICTIONS ON USE: Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal

products, food additives, in vitro diagnostics, or as household chemicals.

### 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture:

**GHS** Classification:

H290 – Corrosive to Metals (Category 1) H314 – Skin corrosion (Category 1A)

H318 – Serious eye damage (Category 1)

## GHS Label elements, including hazard and precautionary statements:

Pictogram



Signal Word: Danger

### **Hazard Statements:**

H290 – May be corrosive to metals

H302 – Harmful if swallowed

H314 – Causes severe skin burns and eye damage

**Precautionary Statements:** 

P273 – Avoid release to the environment. P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 + IF ON SKIN: Wash with plenty of

soap and water

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

221.04 g/mol

 $\begin{array}{lll} \text{Synonyms:} & 2,4\text{-D} \\ \text{CAS No:} & 94\text{-}75\text{-}7 \\ \text{Formula:} & C_8H_6Cl_2O_3 \end{array}$ 

Molecular Weight:

| Ingredient                        | CAS Number | Percent | Hazardous  |
|-----------------------------------|------------|---------|--|
| 2,4-Dichlorophenoxyacetic<br>Acid | 94-75-7    | 1.0 %   | ACGIH TLV: 10 mg/m <sup>3</sup> ; OSHA PEL: 10 mg/m <sup>3</sup> |
| Potassium Hydroxide 1.0 N         | 1310-58-3  | 2-3 %   | ACGIH TLV: 2 mg/m <sup>3</sup>                                   |
| Water                             | 7732-18-5  | 96-97 % | No exposure limits established by OSHA or ACGIH                  |

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#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

**First Aid Procedures Route of Entry Symptoms** May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything Ingestion by mouth to an unconscious person. Get medical attention. Inhalation Safely remove victim to fresh air. If not breathing, institute May cause irritation to respiratory tract cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention. Eye Contact Flush immediately with large amounts of water for at least 15 Direct contact may cause irritation. May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to blurred vision. ensure thorough rinsing. Get medical attention if irritation persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash itching or inflammation. contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: No data available

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapours, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and

remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let product enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Provide adequate ventilation at places where dust is formed.

Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Product is hygroscopic.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: 2-8°C

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):  $10.0 \text{ mg/m}^3$ Threshold Limit Values (TLVs):  $10.0 \text{ mg/m}^3$ 

**Engineering Controls:** Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Chemical safety glasses or goggles. Have eye-washing facilities readily available where Eye/Face Protection:

eye contact can occur.

Skin Protection: Protective gloves

**Body Protection:** Lab coat

**Respiratory Protection:** Respiratory protection is not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless, clear liquid

pH (1.00 mL/L): No data available Solubility: Miscible with water

Melting Range: 136 - 140 °C

Vapor Density: No data available Vapor Pressure: No data available Specific Gravity: No data available

Odor: Odorless

Odor Threshold: No data available Viscosity: No data available Relative Density: No data available

No data available **Evaporation Rate:** 

Initial Boiling Point and

No data available Boiling Range:

Flammability (solid, gas): No data available

Partition coefficient:

No data available n-octanol/water): Auto-ignition Temperature: No data available Decomposition Temperature: No data available

Flash Point (Closed Cup): No data available

Flammable Limits: Lower (%) – No data available Upper (%) – No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: No data available Conditions to Avoid: No data available

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

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### 11. TOXICOLOGICAL INFORMATION

Information reported is for powder form of 2,4-D

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg) 375

LD<sub>50</sub> (Dermal-Rabbit)(mg/Kg) 1400

Carcinogenicity: NTP: No

IARC: Group 2B: Possibly carcinogenic to humans (2,4-d)

OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ

Single Exposure: No data available

Toxicity:

Repeated Exposure: No data available

Target Organs: No data available

Routes of Entry: Ingestion, inhalation, skin or eye contact

NIOSH/RTECS NO: AG6825000

## The toxicological properties of this product have not been thoroughly investigated

### 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available

Other Adverse Effects: No data available

## 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

### 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
Reportable Quantity: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

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UN/NA: N/A

Labels: N/A

#### 15. REGULATORY INFORMATION

TSCA: Yes

**SARA TITLE III:** 

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components: CAS No.: 94-75-7 2,4-Dichlorophenoxyacetic acid

**Pennsylvania Right to Know Components:** This product is not listed on the Pennsylvania Code's Hazardous Substance

List (Chapter 323).

**New Jersey Right to Know Components:** This product is not listed amongst the New Jersey Right to Know Hazardous

**Substance Fact Sheets** 

**California Prop. 65 Components:** This product is not known to the State of California to cause cancer or

reproductive toxicity.

### 16. OTHER INFORMATION

PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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