

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Dicamba Solution (1 mg/mL)

PRODUCT NUMBER: D165

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only

1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

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

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H302 – Acute toxicity, Oral (Category 4)

H318 – Serious eye damage (Category 1)

H402 – Acute aquatic toxicity (Category 3)

H412 – Chronic aquatic toxicity (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: Danger

Hazard Statements:

H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H412 – Harmful to aquatic life with long lasting

effects.

Precautionary Statements:

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 3,6-Dichloro-o-anisic Acid

CAS No.: 1918-00-9 Formula: $C_8H_6Cl_2O_3$ Molecular Weight: 221.04 g/mol

| Ingredient | CAS Number | Percent | Hazardous |
|---------------------------|------------|---------|---|
| Dicamba | 1918-00-9 | 0.1 % | No exposure limits established by OSHA or ACGIH |
| Potassium Hydroxide 1.0 N | 1310-58-3 | 1-5 % | ACGIH TLV: 2 mg/m ³ |
| Water | 7732-18-5 | 94-99 % | 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 Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Safely remove victim to fresh air. If not breathing, institute Inhalation May cause irritation to respiratory cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. **Eye Contact** Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation blurred vision. persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation itching or inflammation.

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: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon dioxide, carbon monoxide, hydrogen chloride gas, chlorine

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:

Using caution and the proper protective equipment contain the spilled material and do not let the product enter drains. Contact a licensed professional waste disposal service to

dispose of this material.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid incompatible substances. Wash thoroughly

after use.

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

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: 2 to 6 °C

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

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

Personal Protective Equipment (PPE):

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

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless, clear liquid
pH (1.00 mL/L): Under Development
Solubility: Miscible with Water
Melting Point: No data available
Vapor Density: No data available
Vapor Pressure: No data available

Odor: Odorless

Odor Threshold: No data available Viscosity: No data available

Relative Density: ~1 g/cm³

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

Auto-ignition Temperature:

No data available

No data available

Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available

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

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur Conditions to Avoid: Excessive heat

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, hydrogen chloride gas, chlorine

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 1039

LD₅₀ (Unreported Route-

Mouse)(mg/Kg):

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700

 LD_{50} (Oral-Mouse)(mg/Kg): 1190

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with

Irritation, itching, gastrointestinal upset, ataxia, possible mutagenic and reproductive effects,

nausea, vomiting, weakness, breathing difficulties

Specific Target Organ

Toxicity:

Overexposure:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions

None identified

Aggravated By Exposure:

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

NIOSH/RTECS NO:

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish – LC50 – rainbow trout – 28 mg/L – 96 hrs

Toxicity to daphnia – EC50 – water flea – 96.8 mg/L – 48 hrs

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

Other Adverse Effects: Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATION

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

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

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

Hazard Class: 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)

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

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: Yes - Dicamba

Section 311/312 Hazard: No SARA Hazards

16. OTHER INFORMATION

HMIS Rating: Health Hazard Chronic Health Hazard Flammability Physical Hazard

NFPA Rating:

2

0
0

NFPA Rating:

Health Hazard

Fire Hazard

Reactivity Hazard

Special Hazard

0
0

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