

Safety Data Sheet

2,6-Dichlorophenolindophenol



Section 1 Product Description

Product Name: 2,6-Dichlorophenolindophenol
Recommended Use: Science education applications
Synonyms: 2,6-Dichlorophenolindophenol sodium salt hydrate, DPIP, Sodium 4-(3,5-dichloro-4-oxocyclohexa-2,5-dienylideneamino)phenoxide
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

| | |
|--|--|
| Acute Toxicity Oral Contains | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| Acute Toxicity Dermal Contains | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| Acute Toxicity Inhalation Gas Contains | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| Acute Toxicity Inhalation Vapor Contains | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| Acute Toxicity Inhalation Dust/Mist Contains | 100 % of the mixture consists of ingredient(s) of unknown toxicity |

Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|------------------------------|--------------|----------|
| 2,6-Dichlorophenolindophenol | 620-45-1 | 100 |

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Chlorine containing gases, Nitrogen containing gases

Section 6 Spill or Leak Procedures

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Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Avoid creating and inhaling dust. Do not ingest or take internally.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

| <u>Chemical Name</u> | <u>ACGIH</u> | <u>OSHA PEL</u> | | |
|---|--------------|-----------------|-------|--------|
| | (TWA) | (STEL) | (TWA) | (STEL) |
| 2,6-Dichlorophenolindophenol, Sodium Salt | N/A | N/A | N/A | N/A |

Control Parameters

Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station available.

Eye Protection:

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: C₁₂H₆Cl₂NO₂*Na*xH₂O
Molecular Weight: 290.07
Appearance: Dark green Solid
Odor: No data available
Odor Threshold: No data available
pH: No data available
Melting Point: No data available
Boiling Point: No data available
Flash Point: No data available
Flammable Limits in Air: No data available

Vapor Pressure: No data available
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: No data available
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: No data available

Section 10 Reactivity Data

| | |
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| Reactivity: | Not generally reactive under normal conditions. |
| Chemical Stability: | Stable under normal conditions. |
| Conditions to Avoid: | Exposure to moisture |
| Incompatible Materials: | Strong oxidizing agents |
| Hazardous Decomposition Products: | Nitrogen containing gases, Chlorine containing gases, Carbon dioxide, Carbon monoxide |
| Hazardous Polymerization: | Will not occur |

Section 11 Toxicity Data

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|--------------------------|--------------------------|
| Routes of Entry | Ingestion, Skin contact. |
| Symptoms (Acute): | No data available |
| Delayed Effects: | No data available |

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Acute Toxicity:

| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|------------|----------------|----------------|-----------------|
| 2,6-Dichlorophenolindophenol, Sodium Salt | 620-45-1 | Not determined | Not determined | Not determined |

Carcinogenicity:

| Chemical Name | CAS Number | IARC | NTP | OSHA |
|---|------------|------------|------------|------------|
| 2,6-Dichlorophenolindophenol, Sodium Salt | 620-45-1 | Not listed | Not listed | Not listed |

Chronic Effects:

| | |
|------------------------------|---|
| Mutagenicity: | No evidence of a mutagenic effect. |
| Teratogenicity: | No evidence of a teratogenic effect (birth defect). |
| Sensitization: | No evidence of a sensitization effect. |
| Reproductive: | No evidence of negative reproductive effects. |
| Target Organ Effects: | |
| Acute: | No information available |
| Chronic: | No information available |

Section 12

Ecological Data

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| Overview: | This material is not expected to be harmful to the ecology. |
| Mobility: | This material is expected to have high mobility in soil. It absorbs weakly to most soil types. |
| Persistence: | No data |
| Bioaccumulation: | Bioconcentration is not expected to occur. |
| Degradability: | Biodegrades quickly. |
| Other Adverse Effects: | No data |

| Chemical Name | CAS Number | Eco Toxicity |
|---|------------|--------------|
| 2,6-Dichlorophenolindophenol, Sodium Salt | 620-45-1 | |

Section 13

Disposal Information

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| Disposal Methods: | Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. |
| Waste Disposal Code(s): | Not Determined |

Section 14

Transport Information

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| Ground - DOT Proper Shipping Name: | Air - IATA Proper Shipping Name: |
| Not regulated for transport by US DOT. | Not regulated for air transport by IATA. |

Section 15

Regulatory Information

| TSCA Status: | All components in this product are on the TSCA Inventory. | | | | | |
|---|---|------------|----------|-----------|-----------|---------------|
| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
| 2,6-Dichlorophenolindophenol, Sodium Salt | 620-45-1 | No | No | No | No | No |

Section 16

Additional Information

| | | |
|----------------------------|-----------------------------|----------------------------|
| Revised: 09/03/2014 | Replaces: 09/03/2014 | Printed: 04-21-2015 |
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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

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| | | | |
|--------|--|------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists | NTP | National Toxicology Program |
| CAS | Chemical Abstract Service Number | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL | Permissible Exposure Limit |
| DOT | U.S. Department of Transportation | ppm | Parts per million |
| IARC | International Agency for Research on Cancer | RCRA | Resource Conservation and Recovery Act |
| N/A | Not Available | SARA | Superfund Amendments and Reauthorization Act |
| | | TLV | Threshold Limit Value |
| | | TSCA | Toxic Substances Control Act |
| | | IDLH | Immediately dangerous to life and health |