

SA-50 Brand Amine 2,4-D
MATERIAL SAFETY DATA SHEET

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I. MATERIAL IDENTITY

Product name: SA-50 Brand Amine 2,4-D EPA Reg. No. 48273-4-1829
Chemical Name: Dimethylamine salt of 2,4-dichlorophenoxy acetic acid
Chemical Family: Chlorinated phenoxy
Synonyms: 2,4-D, 2,4,-D-DMA

II. COMPOSITION/ INFORMATION ON INGREDIENTS

Dimethylamine salt of 2,4-dichlorophenoxy acetic acid 49.3%
2,4-dichlorophenoxy acetic acid CAS# 94-75-7 OSHA (TWA) 10mg/M³
Ingredients listed as carcinogens: NTP no, IARC no, OSHA no.

III. PHYSICAL DATA:

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| Boiling Point (approx.) 214°F | Vapor pressure Approx. 17 mmHg @20°C |
| Vapor Density (Air=1) >1 (H ₂ O vapor) | Solubility in water: Soluble |
| Density 9.6 LB/gal | Appearance/Odor Straw colored liquid |
| Freezing point approximately 30° F | Pungent odor |

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point None to boiling (TOC)
Flammable limits LEL not determined UEL not determined
Extinguish media Water, foam, or fog. Use water to cool containers. Run off from fire control and dilution water may cause pollution.
Special fire fighting procedures: Positive pressure breathing apparatus and protective clothing
Unusual Fire and explosion hazards: Noxious fumes may be evolved at high temperatures

V. REACTIVITY DATA

Materials to avoid: Strong acids and oxidizing agents
Hazardous decomposition products: Hydrogen chloride and oxides of nitrogen
Hazardous polymerization: Will not occur
Stability; Stable under normal storage conditions. Avoid excessive heat.

VI. ENVIRONMENTAL AND DISPOSAL INFORMATION

If spilled: Dike and absorb spilled material. Shovel into appropriate container.
Vapors, spray drift or runoff may adversely affect non-target plants labeled container for disposal Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact your state pesticide or environmental control agency or hazardous waste representative of the nearest EPA regional office for guidance.. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate irrigation or domestic water.

VII. HEALTH HAZARD DATA

Primary routes of entry: Ingestion, inhalation, eye and skin.
INGESTION: The oral LD₅₀ for 2,4-D acid for rats is 1492 mg/Kg
EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.
SKIN CONTACT: Prolonged exposure may cause skin irritation.
SKIN ABSORPTION: A single prolonged exposure may result in the material being absorbed in harmful amounts. The dermal LD₅₀ for rabbits is approx. 2800 mg/kg.
INHALATION: Single exposure to vapors is not likely to be hazardous. OSHA TWA 10 mg/M³

CHRONIC EFFECTS: Excessive exposure may cause liver, kidney, gastrointestinal and muscular effects. Signs and symptoms of excessive exposure may be nausea and/or vomiting and abdominal cramps and diarrhea. Did not cause cancer in long term animal studies. Birth defects are unlikely. Although in laboratory animals other adverse effects were observed in the mother and fetus at exaggerated doses, exposures having no effects on the mother should have no effect on the fetus. High dietary levels of 2,4-D caused toxic effects (weight and viability reduction) in rats on a reproduction test. Has been shown to be negative in some invitro ("test tube" mutagenic tests and positive in others. Results of mutagenic tests in animals have been inconclusive.

VIII. FIRST AID

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Lift eye lids while irrigating. Prompt medical consultation is essential.

SKIN: In case of contact immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated leather items.

INGESTION: Induce vomiting only at advice of physician. Give large amounts of water, or milk if available. When substantial amount is ingested vomiting usually occurs. Transport to a medical facility.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: Corrosive. May cause stricture. Symptomatic treatment. If lavage is performed, suggest endotracheal and/or esophagoscopy control. If burn is present, treat as a thermal burn, after decontamination. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. No specific antidote.

IX. HANDLING PRECAUTIONS

Read and observe all label directions and precautions

EXPOSURE GUIDELINES: 2,4-dichlorophenoxy acetic acid OSHA (TWA) 10 mg/M³

VENTILATION: Use only with good ventilation. Product is intended for use outdoors. Where exposure guidelines would be exceeded wear and approved air-purifying respirator..

SKIN PROTECTION: Coveralls over short sleeve shirt and short pants. Water proof gloves. Chemically resistant footwear plus socks. Protective eye wear. Chemical resistant headgear for overhead exposure. Chemical resistant apron for loading and sprayer maintenance.

EYE Protection: Use chemical goggles. Eye wash fountain should be available in work area.

STORAGE: Store in original container in a cool locked storage area inaccessible to children or pets. Do not store with food, feed or clothing. Store at temperatures above 32°F.

X. SELECTED REGULATORY INFORMATION

Sara 313 information: This product contains the following toxic substance subject to the reporting requirements. 2,4-D CAS# 94-75-7

Under applicable definitions it meets the following SARA Hazard categories;

An immediate health hazard. A delayed health hazard.

2,4-D Acid and salts listed in the table of hazardous substances 40CFR 302.4 , RQ 100 lb.

RCRA waste number U240

2,4-Dichlorophenoxy acetic acid is listed in table Z-1-A (OSHA) 29 CFR 1910.1000

XI. TRANSPORTATION

Shipments of 2 x 2 1/2 gallon containers or less are not DOT regulated for domestic land shipment.

Freight Class NMFC, Herbicides, liquid, N.O.I. 50320

This information relates solely to this specific material. It does not include combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.