UCPA LLC



MATERIAL SAFETY DATA SHEET

Universal Crop Protection Alliance LLC 1300 Corporate Center Curve Eagan, MN 55121 In Case of Emergency, Call: 24 Hour Emergency Number CHEMTREC: 800-424-9300

Medical Emergency Contact: 1-800-228-5635 Ext. 138

1. CHEMICAL IDENTIFICATION

Product Name: 2,4-D Amine Weed Killer Product No.: 0102

EPA Signal Word Danger

EPA Reg. Number: 1386-43-72693

Active Ingredient (%) 2,4-Dichlorophenoxyacetic Acid, 47.2% CAS No.: 2008-39-1

Dimethylamine Salt

Chemical Name: 2,4-Dichlorophenoxyacetic Acid, Dimethylamine Salt

Chemical Class: Phenoxy Herbicide

2. COMPOSITION/INFORMATION ON INGREDIENTS

	OSHA	ACGIH		NTP/IARC/OSHA
Material	PEL	TLV	Other	Carcinogen
2,4-Dichlorophinoxyacetic Acid	10 mg/m3	10 mg/m3		No

3. HAZARDS IDENTIFICATION

<u>EMERGENCY OVERVIEW</u>: Hazardous chemical. Clear brown to dark brown liquid. Pungent odor. May cause severe eye irritation which may result in permanent impairment of vision or blindness. A single prolonged skin exposure may result in the material being absorbed in harmful amounts. Emergency personnel should wear a self contained breathing apparatus because noxious fumes are produced under fire conditions.

<u>Potential Health Effects:</u> This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

Eve: May cause severe irritation with corneal injury which may result in permanent impairment of vision,

even blindness

Skin: A single prolonged skin exposure may result in the material being absorbed in harmful amounts.

Ingestion: Single dose oral toxicity is low. Amounts ingested incidental to normal handling conditions are not

likely to cause injury.

Inhalation: Single exposure to vapors is not likely to be hazardous. Avoid breathing vapors or mist.

<u>Systemic (other Target Organs) Effects:</u> 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/or diarrhea. Birth defects are unlikely to occur.

Physical Properties

Appearance: Clear brown to dark brown liquid.

Odor: Pungent

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Give a large glass of milk or water and contact a physician or

poison control center immediately.

Eye Contact: Flush eyes with water immediately and continuously for 15 minutes. Consult a

physician.

Skin Contact: Wash skin with plenty of soap and water for 15 minutes. Remove contaminated clothing and

wash before reuse. Consult a physician if irritation develops.

Inhalation: Remove to fresh air. Consult a physician if irritation develops of breathing is difficult.

Medical Condition Likely to be Aggravated by Exposure: 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/or diarrhea. Birth defects are unlikely to occur.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): ND
Flammable Limits (% in Air): ND
Autoignition Temperature: ND
Flammability: ND

Hazardous Combustion Products: Noxious fumes produced under fire conditions may include hydrogen

chloride and nitrogen oxides

Extinguishing Media: Foam, fog, or carbon dioxide. Do not allow runoff to enter sewers or

waterways

Fire Fighting Instructions: Prevent human exposure to fire, fumes, and smoke.

Protective Equipment for Fire Fighters: Emergency personnel should wear full face, self contained breathing

apparatus and impervious protective clothing

6. ACCIDENTAL RELEASE MEASURES

<u>In Case of Spill or Leak</u> Contain spill. Absorb spill with sand, floor clay or dirt. Shovel or sweep up and mop affected area. Prevent liquid from entering sewers, waterways, or low areas.

7. HANDLING AND STORAGE

<u>Precautions to be Taken in Handling and Storage:</u> Good housekeeping and controlling of dusts are necessary for safe handling of product. No smoking, open flames or sources of ignition in handling and storage area. Wash thoroughly with soap and water after handling. Do not contaminate water, food or feed by storage or disposal. Do not store near seeds, fertilizers, insecticides or fungicides. Store in original container above 40°F. If frozen, poor weed control may result. Do not store near heat or open flame.

Product Name: 2,4-D Amine Weed Killer Page 2

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

Engineering Controls: Normal room ventilator should be satisfactory. Eyewash stations and safety showers

should be easily accessible.

Eye Contact: Use chemical goggles. Eye wash station should be located in the immediate work area.

Skin Contact: Use protective clothing impervious to this material.

Inhalation: Use a NIOSH approved respirator when protection is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear brown to dark brown liquid

Odor: Pungent

Boiling Point: $>100^{\circ}$ C, 212° F

Specific Gravity/Density: 1.1605 / 9.67

pH: ND

Solubility in H₂O: Emulsifiable

Vapor Pressure_ 16.5mmHg @20°C

Vapor Density ND

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: Elevated temperatures

Incompatible Materials: Acids and oxidizing materials

Hazardous Decomposition Products HCL, Nitrogen oxides under fire conditions

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: LD50 (rats) = 1000 mg/kg Dermal: LLD50 (rabbits) = 900 mg/kg

Inhalation: Single exposure to vapors is not likely to be hazardous

Mutagenicity: Mutagenic effects are unlikely

Reproductive Hazard Potential: Excessive dietary levels of 2,4-D caused toxic effects (weight and viability

reduction) in rats on a reproduction test.

<u>Teratology (Birth Defects):</u> Birth defects are unlikely. Exposures having no effect on the mother should

have no effect on the fetus. Did not cause birth defects in animals. Other effects were seen in the fetus only at doses which caused toxic effects to the

Page 3

mother

<u>Carcinogenic Potential:</u> Various animal cancer tests have shown no reliable positive association between

2,4-D exposure and cancer.

Product Name: 2,4-D Amine Weed Killer

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATION

<u>Disposal Method:</u> Do not contaminate water, food, or feed by storage or disposal. If wastes cannot be disposed of by use according to label instructions, contact the appropriate state, local, or federal agency for guidance on disposal according to current environmental laws, rules, and regulations.

14. TRANSPORT INFORMATION

DOT Classification: Greater than RQ:

RQ; Environmentally hazardous substances, liquid, n.o.s., 9, UN 3082, PG III (2,4-D)

<u>B/L Freight Classification:</u> Compounds tree or weed killing, N.O.I.

15. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the issue or revision date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another, it is users responsibility to ensure that its activities comply with federal, state and local laws and regulations.

SARA Title III Classification

Section 311/312: Hazard Classes: Acute health hazard

Chronic health hazard

Section 313 chemical(s): This product contains the following toxic chemicals subject to the reporting

requirements of section 313 of the emergency planning and community right-to-

know act (EPCRA) of 1986 and of 40 CFR 372

<u>Chemical Name</u> <u>CAS Number</u> <u>RQ</u> <u>% In Product</u> 2,4-Dichlorophenoxyacetic acid, 2008-39-1 21.6 gal 47.2

dimethylamine

RCRA Classification: NA TSCA Status: NA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 3 Flammability: 1 Reactivity: 1 0 Least1 Slight

2 Moderate

3 High

4 Severe

Issued Date: September 9, 1999 Supersedes: September 9, 1997

Reference MSDS: DowElanco, 2,4-D amine weed killer dated 8/20/1993

The information herein is presented in good faith and believed to be accurate as of the issue or revised date shown above. However, since the actual use of the product is beyond manufacturers control, no warranty, expressed or implied, is given and no responsibility assumed. Regulatory requirements governing this product are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that the buyer's activities comply with federal, state and local laws.

Product Name: 2,4-D Amine Weed Killer Page 4