

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

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SAFETY DATA SHEET
2,4-D Amine Salt 58% SL

1. Identification of the Substance / Preparation

- **Common Name:** 2,4-D Amine Salt 58% SL
- **Chemical Name:** 2,4-Dichlorophenoxyacetic acid, dimethylamine salt
- **Intended Use:** Herbicide
- **Pesticide Family:** Phenoxy Herbicide
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited
- **CAS Numbers:** 25168-26-7, 2008-39-1

2. Composition / Information on Ingredients

Component	Concentration
2,4-D DMA Salt	570 g/L
Toxicity Data:	Oral LD50: 625 mg/kg, Dermal LD50: 2115 mg/kg, Inhalation LC50: 4540 ppm/6H

3. Hazards Identification

Effects of Overexposure

- **Acute Exposure:**
 - **Eye Contact:** Severe irritation, potential **corneal injury, blindness**.
 - **Skin Contact:** Possible **irritation**, prolonged exposure may cause absorption.
 - **Inhalation:** **Minimal risk**, but **prolonged exposure** may cause nausea and dizziness.
 - **Ingestion:** May cause **gastrointestinal irritation, nausea, vomiting**.

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- **Chronic Exposure:**
 - May lead to **liver, kidney, gastrointestinal, and muscular issues.**
 - Prolonged exposure **does not show clear cancer association.**
 - **Birth defects are unlikely** unless toxicity affects the mother.
 - **Exposure Limits:**
 - **2,4-D acid TLV - TWA: 10 mg/m³**
 - **Dimethylamine TLV - TWA: 18 mg/m³**
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4. First Aid Measures

- **Eye Contact:** Rinse with water for **15-20 minutes**, remove contact lenses if applicable, seek medical attention.
 - **Skin Contact:** Remove contaminated clothing, wash with **soap and water for 15-20 minutes.**
 - **Inhalation:** Move to fresh air, **perform artificial respiration if necessary**, seek medical help.
 - **Ingestion:** **Do NOT induce vomiting**, sip water if conscious, **call poison control immediately.**
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5. Fire-Fighting Measures

- **Flammability:** Not highly flammable.
 - **Flash Point:** Not applicable
 - **Extinguishing Media:** Dry chemical, CO₂, foam, water spray.
 - **Fire Hazards:** May **emit toxic fumes** under high temperatures (HCl, NO_x, CO).
 - **Firefighting Gear:** **Self-contained breathing apparatus (SCBA), protective clothing.**
 - **Special Considerations:** Prevent contaminated water from entering water supplies.
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6. Accidental Release Measures

- **Personal Precautions:** Wear **protective gloves, goggles, and clothing.**
 - **Spill Cleanup:**
 - For **small spills**, absorb with **sand or inert material**, place in sealed containers.
 - For **large spills**, dike and contain the area, **ventilate the space.**
 - **Environmental Protection:** **Do NOT allow contamination of water sources.**
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7. Handling and Storage

- **Handling Precautions:**
 - **Avoid inhalation**, skin and eye contact.
 - **Do NOT eat, drink, or smoke** while handling.
 - **Storage Conditions:**
 - **Keep in a tightly closed original container.**
 - Store in a **locked, well-ventilated area**, away from **children, unauthorized personnel, food, and feed.**
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8. Exposure Controls / Personal Protection

- **Ventilation:** Use **local exhaust or general ventilation.**
 - **Personal Protection Equipment (PPE):**
 - **Respiratory:** Wear **approved mask** if ventilation is inadequate.
 - **Hand:** Use **rubber or plastic gloves.**
 - **Eye:** **Splash-proof safety goggles** or **face shield.**
 - **Skin:** Wear **protective overalls and closed footwear.**
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9. Physical and Chemical Properties

Property	Value
Appearance	Reddish-brown liquid
Specific Gravity	1.170 @ 20°C
Boiling Point	>100°C
Vapor Density	0.021 (air = 1)
Density	1.245 g/mL @ 25°C
Freezing Point	0°C
Vapor Pressure	20.7 mmHg
pH	7.5 - 9.0
Solubility in Water	Soluble

10. Stability and Reactivity

- **Stability:** Stable under normal conditions but avoid excessive heat.
- **Incompatibility:** Strong oxidizers, acids.
- **Hazardous Decomposition Products:**
 - Ammonia, nitrogen oxides, chlorine-containing compounds.
 - Incomplete combustion may produce carbon monoxide (CO).

11. Toxicological Information

- **Oral LD50 (Rat):** 699 mg/kg
- **Dermal LD50 (Rabbit):** >2000 mg/kg
- **Inhalation LC50 (Rat, 4h):** 1.79 mg/L
- **Eye Effects:** Irritating to eyes

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- **Skin Effects:** Prolonged contact may cause **absorption through skin**
- **Sensitization:** Non-sensitizer but may cause irritation

12. Ecological Information

Parameter	Toxicity Level
Fish Toxicity (LC50, 96h, Rainbow Trout)	100 µg/L
Acute Oral LD50 (Mallard Ducks)	>1000 mg/kg
Bee Toxicity (LD50, 24h, Oral)	104 µg/bee
Chicken Oral LD50	>2000 mg/kg
Daphnia Magna LC50 (48h)	184 µg/L

Environmental Concern: Marine Pollutant (IMDG Regulation).

13. Disposal Considerations

- **Pesticide Disposal:** Dispose at **approved hazardous waste facilities**.
- **Container Disposal:**
 - **Do NOT** reuse empty containers.
 - Dispose in a **sanitary landfill or incinerate** if permitted.
 - If burning is allowed, **avoid inhaling smoke**.

14. Transport Information

Transport Mode	NA
UN Number	NA
Class	NA

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Transport Mode **NA**

Packing Group **NA**

Proper Shipping Name **NA**

Marine Pollutant **NA**

15. Regulatory Information

- **Hazard Symbols:** Harmful (Xn), Dangerous for Environment (N)
- **Risk Phrases:** R20/21/22 – Harmful if swallowed, inhaled, or in contact with skin.
- **Safety Phrases:** S2/13 – Keep out of reach of children. Keep away from food, drinks, and animal feed.

16. Other Information

- **Manufacturer Disclaimer:** The information is based on current knowledge but does **not** **guarantee** absolute accuracy.
 - **Users must exercise independent judgment** for their specific application.
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