



SAFETY DATA SHEET

NavXport Worldwide

Product: 2,4-DICHLOROPHENOXYACETIC ACID (2,4-D)

SECTION 1: Product and Company Identification

Product Name	2,4-DICHLOROPHENOXYACETIC ACID
Synonyms	2,4-D
CAS Number	94-75-7
Company	NAVXPORT WORLDWIDE NMR -A-47, New Minal, Govindpura Industrial Area, Bhopal- 462023, MP, INDIA
Emergency Contact	+91 96329 45556 +91 93138 27100
Email	sales@navxport.com
Recommended Use	Laboratory chemicals, Manufacture of substances

SECTION 2: Hazards Identification



Signal Word: DANGER

Classification:

- Acute toxicity, Oral (Category 4)
- Serious eye damage (Category 1)
- Skin sensitisation (Category 1)
- STOT SE (Category 3) - Respiratory irritation
- Chronic aquatic toxicity (Category 3)

Hazard Statements:

- H302: Harmful if swallowed.

- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.
- H412: Harmful to aquatic life with long lasting effects.

SECTION 3: Composition / Information on Ingredients

Component	CAS-No.	Molecular Weight	Formula
2,4-Dichlorophenoxyacetic acid	94-75-7	221.04 g/mol	C ₈ H ₆ Cl ₂ O ₃

SECTION 4: First Aid Measures

Inhalation	Move to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.

SECTION 5: Fire Fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific Hazards: Carbon oxides, Hydrogen chloride gas.

Protection: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for Cleaning: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Storage class (TRGS 510): Combustible Solids.

SECTION 8: Exposure Controls / Personal Protection

Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

PPE:

- **Eyes:** Face shield and safety glasses (NIOSH (US) or EN 166(EU)).
- **Hands:** Handle with gloves. Gloves must be inspected prior to use.
- **Body:** Complete suit protecting against chemicals.
- **Respiratory:** Where risk assessment shows air-purifying respirators are appropriate, use EN 143/NIOSH approved respirators.

SECTION 9: Physical and Chemical Properties

Appearance	White to light yellow Powder	Odour	No data available
Melting Point	136 - 140 °C	Boiling Point	160 °C at 1013 hPa
Vapour Pressure	< 0.75 mmHg at 20 °C	Solubility	Insoluble in water
Bulk Density	720 g/l	Relative Density	No data available

SECTION 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Incompatibility: Strong oxidizing agents, Copper, Iron and iron salts.

Conditions to Avoid: Light sensitive. Heat.

Hazardous Decomposition: Carbon oxides, Hydrogen chloride gas.

SECTION 11: Toxicological Information

- **LD50 Oral (Rat):** 375 mg/kg
- **LD50 Dermal (Rabbit):** 1,400 mg/kg
- **Eye Irritation (Rabbit):** Severe eye irritation - 24 h
- **Skin Irritation (Rabbit):** Mild skin irritation - 24 h
- **Carcinogenicity:** IARC: Group 2B - Possibly carcinogenic to humans.
- **Reproductive:** Laboratory experiments have shown teratogenic effects.

SECTION 12: Ecological Information

Toxicity to Fish: LC50 - Salmo salar (Atlantic salmon) - 100 mg/l - 96.0 h

Toxicity to Algae: EC50 - Pseudokirchneriella subcapitata - 0.024-0.026 mg/l - 96 h

Ecotoxicity: Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. Avoid release to the environment.

SECTION 13: Disposal Considerations

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14: Transport Information

UN Number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,4-Dichlorophenoxyacetic acid)
Hazard Class	9
Packing Group	III
Marine Pollutant	Yes

SECTION 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Product is classified as hazardous according to GHS criteria.

SECTION 16: Other Information

Disclaimer: This MSDS is provided in good faith by **NavXport Worldwide** and is based on our current knowledge. It is intended as a guide for precautionary handling and does not represent a guarantee of the properties of the product.