

# JAY ORGANICS

Plot no.-456,Phase-II, G.I.D.C., Vatva, Ahmedabad, INDIA-382445.

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Chemical Name:** 1,3-Diamino-4-nitrobenzene

**Synonym:** p-Nitro-m-phenylenediamine

**Molecular Weight:** 153.14

**Chemical Formula:** C<sub>6</sub>H<sub>7</sub>N<sub>3</sub>O<sub>2</sub>

**CAS Number:** 5131-58-8

### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
1,3-Diamino-4-nitrobenzene	5131-58-5	-----	Not available.	Rat LD50 (oral) 4500mg/kg Mouse LD50 (oral) 500mg/kg

### 3. HAZARDS IDENTIFICATION

**Acute Health Effects:**

Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

**Chronic Health Effects:**

**CARCINOGENIC EFFECTS :** Not available.

**MUTAGENIC EFFECTS :** Not available.

**TERATOGENIC EFFECTS :** Not available.

**DEVELOPMENTAL TOXICITY:** Not available.

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

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#### 4. FIRST AID MEASURES

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##### **Eye Contact**

Check for and remove any contact lenses. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and supportively.

##### **Skin Contact**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover theirritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.

##### **Inhalation**

If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention. Treat symptomatically and supportively.

##### **Ingestion**

INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

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#### 5. FIRE AND EXPLOSION DATA

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**Flammability:** Combustible.

**Flash Points:** Not available.

**Auto-Ignition:** Not available.

**Flammable Limits:** Not available.

##### **Combustion Products:**

These products are toxic carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>).

##### **Fire Hazards:**

No specific information is available regarding the flammability of this compound in the presence of various materials.

**Explosion Hazards:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

No additional information is available regarding the risks of explosion.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemicals, CO<sub>2</sub>, water spray or foam.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Spill Cleanup Instructions:**

Harmful material.

In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Use a shovel to put the material into a convenient waste disposal container.

Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water.

Consult federal, state, and/or local authorities for assistance on disposal.

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**7. HANDLING AND STORAGE**

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**Handling and Storage Information:**

HARMFUL. Keep away from heat and sources of ignition. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Treat symptomatically and supportively. Avoid contact with skin and eyes. Always store away from incompatible compounds such as oxidizing agents.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:**

Splash goggles. Lab coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Physical state @ 20°C:** Crystalline powder.

**Specific Gravity:**Not available.

**Molecular Weight:**153.14

**Boiling Point:**Not available.

**Melting Point:**160°C (320°F)

**Refractive Index:**Not available.

**Critical Temperature:**Not available.

**Viscosity:**Not available.

**Solubility:**Not available.

**Partition Coefficient:** Not available.

**Vapor Pressure:**Not available.

**Vapor Density:**Not available.

**Volatility:** Not available.

**Odor:**Not available.

**Taste:**Not available.

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## 10. STABILITY AND REACTIVITY DATA

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**Stability:**

This material is stable if stored under proper conditions. (See Section VII for instructions)

**Conditions of Instability:**Avoid excessive heat and light.

**Incompatibilities:**Reactive with oxidizing agents.

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## 11. TOXICOLOGICAL INFORMATION

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**RTECS Number:** ST2910000

**Routes of Exposure:**Eye contact. Inhalation.Ingestion.

**Toxicity Data:**Rat LD50 (oral) 4500mg/kg  
Mouse LD50 (oral) 500mg/kg

### **Chronic Toxic Effects**

**CARCINOGENIC EFFECTS :** Not available.

**MUTAGENIC EFFECTS :**Not available.

**TERATOGENIC EFFECTS :** Not available.

**DEVELOPMENTAL TOXICITY:** Not available.

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

### **Acute Toxic Effects:**

Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

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## 12. ECOLOGICAL INFORMATION

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**Eco toxicity:** Not available.

**Environmental Fate:** Not available.

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## 13. DISPOSAL CONSIDERATIONS

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### **Waste Disposal:**

Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance.

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## 14. TRANSPORT INFORMATION

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**UN number:**

ADR/RID: -

IMDG: -

IATA: -

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**Special precautions for user**

no data available

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## 15. OTHER REGULATORY INFORMATION AND PICTOGRAMS

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**TSCA Chemical Inventory (EPA):**

This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.

**WHMIS Classification (Canada):** Not available.**EINECS Number (EEC):** Not available.**EEC Risk Statements:** Not available.**Japanese Regulatory Data:** Not available.

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## 16. OTHER INFORMATION

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Jay Organics be liable for any claims,

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