MATERIAL SAFETY DATA SHEET
2,5-DICHLORONITROBENZENE

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 2,5-Dichloronitrobenzene
Synonyms: 1,4-Dichloro-2-nitrobenzene
Company Identification: Sisco Research Laboratories Pvt. Ltd.
Andheri (East), Mumbai – 400 099.
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Fax: +91 22 2687 8241
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2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>89-61-2</td>
<td>2,5-Dichloronitrobenzene</td>
<td>99%</td>
<td>201-923-3</td>
</tr>
</tbody>
</table>

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Harmful if swallowed.

Potential Health Effects
Eye: May cause eye irritation.
Skin: May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Get medical aid. Wash mouth out with water.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:
### 5 - FIRE FIGHTING MEASURES

**General Information:**
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:**
Use water spray, dry chemical, carbon dioxide, or chemical foam.

### 6 - ACCIDENTAL RELEASE MEASURES

**General Information:**
Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**
Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Isolate area and deny entry.

### 7 – HANDLING AND STORAGE

**Handling:**
Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

**Storage:**
Store in a cool, dry place. Store in a tightly closed container.

### 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:**
Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**
CAS# 89-61-2

**Personal Protective Equipment**

- **Eyes:**
  Wear chemical splash goggles.

- **Skin:**
  Wear appropriate protective gloves to prevent skin exposure.

- **Clothing:**
  Wear appropriate protective clothing to prevent skin exposure.

- **Respirators:**
  Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

- **Physical State:** Solid
- **Melting Point:** 54 - 57 deg C
- **Molecular Formula:** Cl₂C₆H₃NO₂
- **Molecular Weight:** 192.00

### 10 - STABILITY AND REACTIVITY

**Chemical Stability:**
Stable. Stable under normal temperatures and pressures.
Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:
Strong oxidizing agents, strong bases.

Hazardous Decomposition Products:
Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization:
Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 89-61-2: CZ5260000
LD50/LC50:

RTECS:

CAS# 89-61-2: Draize test, rabbit, eye: 100 mg/24H Moderate;
Draize test, rabbit, skin: 500 mg/24H Mild;
Oral, mouse: LD50 = 2850 mg/kg;
Oral, rat: LD50 = 1 gm/kg;
Oral, rat: LD50 = 1210 mg/kg;

Carcinogenicity:
2,5-Dichloronitrobenzene - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:
See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

12 - ECOLOGICAL INFORMATION

Not available

13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14 - TRANSPORT INFORMATION

Shipping Name:
IATA
IMO
RID/ADR
Not regulated
Not regulated
Not regulated
as a hazardous
as a hazardous
as a hazardous
material
material
material

Hazard Class:

UN Number:

Packing Group:

15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols:
XN
Risk Phrases: R 22 Harmful if swallowed.
Safety Phrases:
WGK (Water Danger/Protection)CAS# 89-61-2: 2
Canada CAS# 89-61-2 is listed on Canada's NDSL List
US Federal
TSCA CAS# 89-61-2 is listed on the TSCA Inventory.

**16 - ADDITIONAL INFORMATION**

**SISCO RESEARCH LABORATORIES** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.