

SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

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| Name: | 2 6-Dichloro-4-nitroaniline Material Safety Data Sheet |
| Synonym: | Resisa |
| CAS: | 99-30-9 |

➡ Section 1 - Chemical Product

MSDS Name: 2 6-Dichloro-4-nitroaniline 95%(tlc)

Synonym: Resisan

➡ Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

| CAS# | Chemical Name | content | EINECS# |
|---------|-----------------------------|---------|-----------|
| 99-30-9 | 2,6-Dichloro-4-nitroaniline | 95% | 202-746-4 |

Hazard Symbols: XN

Risk Phrases: 22

➡ Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed.

Potential Health Effects

Eye:

Causes eye irritation. May result in corneal injury.

Skin:

Causes skin irritation.

Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. Effects may be delayed 2 to 4 hours.

Inhalation:

Causes respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish

discoloration of skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death. Damage may be delayed.

Chronic:

Absorption into the body leads to the formation of methemoglobin which in sufficient concentrations causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood).

🔦 Section 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

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:

🔦 Section 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.

🔦 Section 6 - ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the Protective Equipment section.

➡ Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area.

Do not breathe dust, vapor, mist, or gas.

Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

➡ Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 99-30-9: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

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.

➡ Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: Not available.

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 190 - 192 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.



Explosion Limits, upper: Not available.
Decomposition Temperature: >350 deg C
Solubility in water: 1 g/l water (60??c)
Specific Gravity/Density:
Molecular Formula: C₆H₄Cl₂N₂O₂
Molecular Weight: 207.02

➡ Section 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials.
Incompatibilities with Other Materials:
Strong oxidizing agents - strong acids - acid chlorides - acid anhydrides.
Hazardous Decomposition Products:
Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.
Hazardous Polymerization: Has not been reported.

➡ Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 99-30-9: BX2975000 LD50/LC50:
CAS# 99-30-9: Inhalation, rat: LC50 = >21600 mg/m³/1H; Oral, mouse: LD50 = 1500 mg/kg;
Oral, rat: LD50 = 2400 mg/kg; Skin, rabbit: LD50 = >2 gm/kg.
Carcinogenicity:
2,6-Dichloro-4-nitroaniline • Not listed by ACGIH, IARC, or NTP.
Other:
See actual entry in RTECS for complete information.

➡ Section 12 - ECOLOGICAL INFORMATION

Other No information available.

➡ Section 13 - DISPOSAL CONSIDERATIONS

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

➡ **Section 14 - TRANSPORT INFORMATION**

IATA

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.*

Hazard Class: 6.1

UN Number: 2811

Packing Group: III

IMO

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing Group: III

RID/ADR

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing group: III

➡ **Section 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# 99-30-9: 2

Canada

CAS# 99-30-9 is listed on Canada's NDSL List.

CAS# 99-30-9 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 99-30-9 is listed on the TSCA inventory.