

MATERIAL SAFETY DATA SHEET

Dinitrochlorobenzene (DNCB)

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Product: Dinitrochlorobenzene **CAS:** 97-00-7

Chemical Name / Formula: 1-chloro-2,4-dinitrobenzene (C₆H₃ClN₂O₄)

Physical Description: Acetone formula is liquid form, petrolatum formula is petrolatum form.

Special Hazards: Toxic by inhalation, in contact with skin, and if swallowed. Causes burns. Danger of cumulative effects.

Unusual Fire/Explosion Hazards: Acetone formula is highly flammable. DNCB can have container explosions under fire conditions. Emits toxic fumes under fire conditions.

Reactivity: Avoid strong bases and strong oxidizing bases. Reacts violently with hydrazine hydrate.

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Hydrogen chloride gas.

Spill or Leak Procedures

Action: Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Disposal Method: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber. To be performed in compliance with all current local, state and federal regulations.

Threshold Limit Value: Not available

First Aid Procedures

Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Ingestion: If swallowed, wash out mouth with water, provided person is conscious. Seek medical attention immediately.

Inhalation: If inhaled, remove to fresh air. If not breathing, perform CPR. If breathing is difficult, give oxygen. Seek medical attention.

Storage recommendations: Keep tightly closed.

Special Protection Information

Respirator, chemical-resistant gloves, safety goggles, use in a chemical fume hood, near a safety shower/eye wash.

Special Handling Precautions

Do not breathe dust. Do not get in eyes, on skin or on clothing. Avoid prolonged or repeated exposure.