

## 1. Identification


Product Code **1110433**

Product Name **2,4-DINITROPHENYLHYDRAZINE pure**

Molecular Formula **(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHNH<sub>2</sub> =198.14**

CAS Number **119-26-6**

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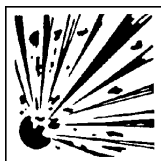
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**(Have this document to hand)**

## 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
2,4-Dinitrophenylhydrazine	119-26-6	204-309-3	90.0%	E T N : R2,R23/24/25,R33,R51/53	N/A

## 3. Hazards Identification



Risk of explosion by shock, friction, fire or other sources of ignition. Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

## 4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

## 5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

Extinguishing Media Water spray.

Unsuitable Media Do not use water jet.

## 6. Accidental Release Measures

Personal Protection	Ensure no sources of ignition. Only re-enter area with full protective clothing and breathing apparatus. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so. Do not allow to dry out.
Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Shut off any sources of ignition. Moisten material with water. Sweep up and transfer to a suitable container for disposal. Wash area down with copious amounts of water.
Minor Spillage	Shut off any sources of ignition. Moisten material with water. Sweep up and transfer to a suitable container for disposal. Wash area down with copious amounts of water.

## 7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.  Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.
Storage Conditions	Keep product moist, away from direct sources of heat and metals.

## 8.1 Workplace Exposure Limits

No prescribed exposure limits available

## 8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator,
Hands	Use nitrile gloves or PVC gauntlets.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

## 9. Physical & Chemical Properties

Appearance	Orange red crystals.
Odour	No specific odour.
pH	Not available
Boiling point	Not available
Melting point	194.0 °C
Flash point	210.0 °C(Closed cup)
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	Explosive when dry.
Oxidising Properties	No.
Vapour Pressure	Not available
Relative Density	Not available
Water Solubility	Sparingly soluble in water.

## 10. Stability & Reactivity

Chemical Stability	Unstable above 160 C.
Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
Materials to Avoid	Strong oxidising agents.
Hazardous Decomposition Products	Burning will produce toxic fumes of NO <sub>x</sub> , carbon monoxide and/or carbon dioxide.

## 11. Toxicological Information

Eyes	Contact with the solid or dust will be irritating to the eyes.
Skin	Contact with the solid or dust will be irritating to the skin. May cause skin sensitisation.
LD50 Skin	Not available
Ingest	Ingestion will cause similar effects to dust inhalation.
LD50 Ingest	Oral rat 654 mg/kg
Inhalation	Absorption into the body leads to formation of methemoglobin which in sufficient concentrations causes cyanosis. Onset may be delayed for 2 - 4 hours.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	May be a mutagen.
Reproductive Effects	No information is available.

## 12. Ecological

Small amounts present no specific environmental hazard.

## 13. Disposal Considerations

Disposal Methods	Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems. Dispose of in a licensed incinerator. Do not allow to dry out.
Contaminated Packaging	Use a licensed waste disposer. Do not allow to dry out.

## 14. Transport Information

Proper Shipping Name	Flammable Solid, Organic, N.O.S.(2,4-Dinitrophenylhydrazine)
UN Number	1325
UN Classification	4.1 Flammable solid
Subsidiary Risk	None
Flash Point	210.0 °C(Closed cup)
Packing Group	III
Transport Category	3
Marine pollutant	No
ADR Hazard ID	40



## 15. Regulatory Information

Labelling	Explosive, Toxic, Dangerous for the Environment.
Classification	

Label Symbols	E	A square symbol showing a black explosion with several lines radiating outwards from a central point.	T	A square symbol showing a black skull and crossbones.	N	A square symbol showing a black tree and a fish, with a horizontal line above the tree and a wavy line below the fish.
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Risk & safety Phrases	Risk of explosion by shock, friction, fire or other sources of ignition. Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Keep locked up and out of reach of children. After contact with skin, wash immediately with plenty of water. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label). Avoid release to the environment, refer to special instructions/safety data sheet.
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EEC Number	204-309-3
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## 16. Other Information

Document Information      This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

Revision Date: 6/10/09.

Data reviewed and PDF file generated: 17/03/10.

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