



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : D 10809  
Product Name : 2,4 DINITROPHENYL HYDRAZINE

Manufacturer/supplier identification  
Company : NICE Chemicals (P) Ltd., Cochin, India  
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : DNP

### **Hazardous Ingredients :**

Name according to EC Directives : 2,4-Dinitrophenylhydrazine

Hazardous symbols : E Xn R-phrases : 2-22-36/38

EC-Index No. : None Risk of explosion by shok, friction, fire or  
other sources of ignition. Harmful if swallowed.  
Irritating to eyes and skin.

CAS-No : 119-26-6 Content : 50 %

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## 3. HAZARDS INDEX

Risk of explosion by shok, friction, fire or other sources of ignition.  
Harmful if swallowed. Irritating to eyes and skin

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**4. FIRST AID MEASURES** : After inhalation(particles, dusts) : Fresh air. Consult doctor if feeling unwell.

After skin contact (particles, dusts) : Wash off with plenty of water.

Remove contaminated clothing.

After eye contact : Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Summon doctor if necessary.

After swallowing : Make victim drink plenty of water induce vomiting, summon doctor.

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### **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : foam, water.

Special risks : Combustible. Avoid percussion and friction. In the event of decomposition : danger of explosion! Development of hazardous combustion gases or vapours possible in the event of fire.

The following may develop in the event of fire : Nitrogen oxides.

Special protective equipment for the fighting : Do not stay in dangerous zone without suitable chemical protection clothing and self-contaminated breathing apparatus.

Other information : Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

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### **6. ACCIDENTAL RELEASE MEASURES**

Person-related precautionary measures : Avoid substance contact. Avoid generation of dusts; do not inhale dusts.



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Environmental-protection measures : Do not allow to enter sewerage system.

Procedures for cleaning/absorption : Take up dry. Forward for disposal. Clean up affected area. Keep moist.

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**7. HANDLING AND STORAGE** : Handling - Store in a cool and fireproof place.

Storage : Tightly closed and away from sources of ignition and heat. Observe national regulations. At +15° C to +25° C

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## **8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Respiratory protection : required when dusts are generated.

Eye Protection : required

Hand Protection : required

Protective clothing should be selected specifically for the working place, depending on concentration & quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Change contaminated clothing. Application of skin-protective barrier cream. Wash hands after working with substance.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Solid
Colour	: Orange Red
Odour	: Odourless
pH value	: Not available
Melting temperature	: ~203° C
Boiling temperature	: Not available
Ignition temperature	: Not available
Flash Point	: Not available
Explosion limit lower	: Not available
upper	: Not available



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Relative vapour density : Not available  
Density : Not available  
Bulk Density : ~680 kg/m<sup>3</sup>  
Solubility in Water(20° C) : Almost insoluble  
Ethanol (20° C) : Sparingly soluble  
Thermal decomposition : above melting point  
Burning period : 600 kg/min

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### 10. STABILITY AND REACTIVITY

Conditions to be avoided: Strong heating. Avoid percussion and friction.

Substances to be avoided : oxidizing agent, reducing agents.

Hazardous decomposition products: in the event of fire : Nitrous gases.

Further information : explosive when dry.

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD<sub>50</sub> (oral, rat) : 654 mg/kg

Subacute to chronic toxicity : Mutagenic in the acute test.

Further toxicological information :

After inhalation of vapours : Irritation symptoms in the respiratory tract.

Risk of absorption.

After skin contact : Irritant effect.

After eye contact : Irritant effect.

After swallowing : Irritations of mucous membranes in the mouth, pharynx,  
oesophagus and gastro intestinal tract, absorption.

Other notes :

After absorption : jaundice, changes in the blood picture with methaemo-  
globinaemia and CNS disorders.

Further data : Further hazardous properties cannot be excluded. The product  
should be handled with the care usual when dealing with chemicals.

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## 12. ECOLOGICAL INFORMATION

Ecotoxic effects : Quantitative data on the ecological effect of this product are not available.

Further ecologic data : Do not allow to enter waters, waste water, or soil!

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## 13. DISPOSAL METHOD

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

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## 14. TRANSPORT INFORMATION

GGVS/GGVE class : 4.1 Number and letter : 21a

Transport over land ADR/RID class : 4.1 Number and letter : 21a

ADR/RID & GGVS/GGVE : Name of material : 2,4 DINITROPHENYLHYDRAZINE

Sea Transport IMDG : IMDG class : Prohibited UN No. : --- MFAG : ---

Packing group : --- Ems : ---

Correct Technical Name : 2,4 DINITROPHENYLHYDRAZINE

Air Transport ICAO-TI

and IATA-DGR : ICAO/IATA class : --- UN No. : ---

Packaging group : ---

Correct Technical Name : 2,4 DINITROPHENYLHYDRAZINE

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## 15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol	:	E	Explosive
		Xn	Harmful
R-phrases	:	2-22-36/38	Risk of explosion by shock, friction, fire or other sources of ignition. Harmful if swallowed. Irritation to eyes and skin.
S-phrases	:	35	This material and its container must be disposed of in a safe way.

Water pollution class : 2 (polluting substance) (own classification)

## 16. OTHER INFORMATION

Reason for alteration

Change in labeling.

General update.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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