

## **MATERIAL SAFETY DATA SHEET**

### **2, 2-DIPHENYL-1-PICRYLHYDRAZYL 98% CAS NO. : 1898-66-4**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name:** 2,2-DIPHENYL-1-PICRYLHYDRAZYL 98%

**CAS#:** 1898-66-4

**C.I. No.:** Not available.

**Synonym:** DPPH

**Chemical Name:** 2,2-DIPHENYL-1-PICRYLHYDRAZYL 98%

**Chemical Formula:** C<sub>18</sub>H<sub>12</sub>N<sub>5</sub>O<sub>6</sub>

**Brand:** OXFORD

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification:**      **OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
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#### **Section 2: Composition and Information on Ingredients**

##### **Substances**

**Formula:** C<sub>18</sub>H<sub>12</sub>N<sub>5</sub>O<sub>6</sub>

**Molecular weight:** 394.32 g/mol

**CAS-No.:** 1898-66-4

**Hazardous ingredients according to Regulation (EC) No 1272/2008.**

Chemical name	Cas no.	Concentration
2,2-DIPHENYL-1-PICRYLHYDRAZYL	1898-66-4	<=100%

## Section 3: Hazards Identification

### Classification of the substance or mixture

**Classification of the substance according to Regulation (EC) No 1272/2008:**

**Respiratory sensitisation (Category 1), H334**

**Skin sensitisation (Category 1), H317**

**Other hazards : None.**

## Section 4: First Aid Measures

### Description of first aid measures

#### **General advice**

**Consult a physician. Show this safety data sheet to the doctor in attendance.**

#### **If inhaled**

**If breathed in, move person into fresh air. If not breathing, give artificial respiration.**

#### **In case of skin contact**

**Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.**

#### **In case of eye contact**

**Wash off with soap and plenty of water. Consult a physician.**

#### **If swallowed**

**Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.**

### Indication of any immediate medical attention and special treatment needed

**No data available**

## Section 5: Fire and Explosion Data

### **Extinguishing media**

#### **Suitable extinguishing media**

**Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**

#### **Special hazards arising from the substance or mixture**

**Carbon oxides, Nitrogen oxides (NOx)**

#### **Advice for firefighters**

**Wear self contained breathing apparatus for fire-fighting if necessary.**

#### **Further information**

**No data available.**

## Section 6: Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7: Handling and Storage

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.

### **Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**Recommended storage temperature:** 2 -8 °C

**Storage class (TRGS 510):** Combustible Solids

## Section 8: Exposure Controls/Personal Protection

### **Control parameters**

#### **Exposure controls**

##### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### **Personal protective equipment**

##### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Section 8: Exposure Controls/Personal Protection (Continued)

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Do not let product enter drains.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a) Appearance Form	: Powder.
b) Odour	: No data available.
c) Odour threshold	: No data available.
d) pH	: No data available.
e) Melting point/range	: 135 °C-lit.
f) Initial boiling point and boiling range	: No data available.
g) Autoignition temperature	: No data available.
h) Flammability (solid, gas)	: No data available.
i) Upper/lower flammability or explosive limits	: No data available.
j) Flash point [°C]	: No data available.
k) Evaporation rate	: No data available.
l) Vapour pressure	: No data available.
m) Vapour density	: No data available.
n) Relative density,	: No data available.
o) Solubility in water	: No data available.
p) Viscosity	: No data available.
q) Explosive properties	: No data available.

## Section 9: Physical and Chemical Properties (Continued)

r)Oxidising properties	: No data available.
s)Decomposition temperature	: No data available.
t)Autoignition temperature	: No data available.
u)Molecular Weight	: No data available.

## Section 10: Stability and Reactivity Data

**Reactivity** : No data available.

**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : No data available.

**Conditions to avoid** : No data available.

**Incompatible materials** : Oxidizing agents, strong bases.

**Hazardous decomposition products**

**Other decomposition products** - Hazardous decomposition products formed under fire conditions.-

Carbon oxides , Nitrogen oxides (NOx)

Other decomposition products-No data available.

## Section 11: Toxicological Information

**Information on toxicological effects**

**Acute toxicity:**

No data available 2,2-Diphenyl-1-Picrylhydrazyl

LD50 Intravenous-Mouse-1.8 mg/kg (2,2-Diphenyl-1-picrylhydrazyl)

**Skin corrosion/irritation**

No data available (2,2-Diphenyl-1-picrylhydrazyl)

**Serious eye damage/eye irritation**

No data available (2,2-Diphenyl-1-picrylhydrazyl)

## **Section 11: Toxicological Information (Continued)**

### **Respiratory or skin sensitization**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### **Reproductive toxicity**

No data available

### **Specific target organ toxicity - single exposure**

No data available (2,2-Diphenyl-1-picrylhydrazyl)

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available (2,2-Diphenyl-1-picrylhydrazyl)

### **Additional Information**

**RTECS:** Not available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (2,2-Diphenyl-1-picrylhydrazyl)

## **Section 12: Ecological Information**

**Toxicity:** No data available.

**Persistence - degradability :** No data available.

**Bioaccumulative potential :** Not established.

**Mobility in soil :** Not established.

**Results of PBT and vPvB assessment :** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other adverse effects :** No data available.

## Section 13: Disposal Considerations

### Waste treatment methods

**Product:** Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product.

## Section 14: Transport Information

### Land transport (ADR-RID)

**General information :** Not regulated.

### Sea transport (IMDG) [English only]

**General information :** Not regulated.

### Air transport (ICAO-IATA) [English only]

**General information :** Not regulated.

## Section 15: Other Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.



## ***Disclaimer:***

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