

MATERIAL SAFETY DATA SHEET

2,4-DINITRO ANILINE 98%

(For Synthesis)

MSDS CAS: 97-02-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: 2,4-DINITRO ANILINE

CAS#: 97-02-9

Synonym: 2,4-Dinitrobenzenamine, 2,4-Dinitrophenylamine

Chemical Name: 2,4-Dinitro Aniline

Chemical Formula: C₆H₅N₃O₄

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
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
2,4-Dinitro Aniline	100 %	97-02-9	202-553-5	612-040-00-1	----	T+; R26/27/28, R33 N; R51-53 ----- Acute Tox. 1 (skin) _ H310 Acute Tox. 2 (inhal) _ H330 Acute Tox. 1 (oral) _ H300 Aquatic Chronic 2 _ H411

Section 3: Hazards Identification

Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification: T+; R26/27/28 R33 N; R51-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards:

Acute toxicity, Oral - Category 1 - Danger (CLP: Acute Tox. 1) H300

Acute toxicity, Inhalation - Category 2 - Danger (CLP: Acute Tox. 2) H330

Acute toxicity, dermal - Category 1 - Danger (CLP: Acute Tox. 1) H310

Environmental hazards:

Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP: Aquatic Chronic 2) H411

Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s):

T+ : Very toxic

N: Dangerous for the environment.

R Phrase(s):

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.

R33: Danger of cumulative effects.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s):

S1/2: Keep locked up and out of reach of children.

S28: After contact with skin, wash immediately with

S36/37: Wear suitable protective clothing and gloves.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

Section 4: First Aid Measures

Description of first aid measures

Inhalation:

Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment is urgent (see on this label).

Section 4: First Aid Measures (Continued)

Skin Contact:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Specific treatment (see on this label). Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

Eye contact:

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion:

Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use: Fatal if swallowed, Fatal in contact with skin, Fatal if inhaled.

Indication of any immediate medical attention and special treatment needed

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters

Protection against fire:

Do not enter fire area without proper protective equipment, including respiratory protection.

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Section 6: Accidental Release Measures

Special procedures:

Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel: Evacuate unnecessary personnel.

Environmental precautions

Environmental precautions:

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

Clean up methods: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Section 7: Handling and Storage

Precautions for safe handling

Handling:

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, and spray. Use only outdoors or in a well-ventilated area.

Technical protective measures:

Provide good ventilation in process area to prevent formation of vapour.

Conditions for safe storage, including any incompatibilities

Storage:

Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

Storage - away from: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Section 8: Exposure Controls/Personal Protection

Exposure controls

Personal protection: Avoid all unnecessary exposure.

Respiratory protection: Wear respiratory protection.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Others: When using, do not eat, drink or smoke.

Control parameters

Occupational Exposure Limits: No data available.

Section 9: Physical and Chemical Properties

Physical state at 20 °C	: Solid.
Colour	: Yellow powder
Odour	: Not Available.
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 176 - 178 °C
Decomposition point [°C]	: 290 °C
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: > 350°C
Flammability (solid, gas)	: Not Available.
Flash point [°C]	: 89 °C
Boiling point [°C]	: 56.7 °C
Initial boiling point [°C]	: Not Available.
Final boiling point [°C]	: Not Available.
Evaporation rate	: Not Available.
Vapour pressure [20°C]	: 13 mbar @ 200C
Vapour pressure mm/Hg	: Not Available.
Vapour density	: 6,31
Density [g/cm³]	: 1,615
Relative density, gas (air=1)	: Not Available.
Relative density, liquid (water=1)	: Not Available.

Section 9: Physical and Chemical Properties (Continued)

Solubility in water [% weight]	: Insoluble
Solubility in water	: Not Available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Not Available.
Viscosity at 40°C [mm²/s]	: Not Available.

Other information

Explosive properties	: Not Available.
Explosion limits - upper [%]	: Not Available.
Explosion limits - lower [%]	: Not Available.
Oxidising properties	: No data available.

Section 10: Stability and Reactivity Data

Reactivity: Not established.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Not established.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Incompatible materials: Strong acids. Strong bases.

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

Section 11: Toxicological Information

Acute toxicity

Inhalation: Fatal if inhaled.

Dermal: Fatal in contact with skin.

Ingestion: Fatal if swallowed.

Section 11: Toxicological Information (Continued)

Corrosion: Based on available data, the classification criteria are not met.

Irritation: Based on available data, the classification criteria are not met.

Sensitization: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Toxicity

Toxicity information: Toxic to aquatic life with long lasting effects.

Persistence - degradability

Persistence - degradability: May cause long-term adverse effects in the environment.

Bioaccumulative potential

Bioaccumulative potential: Not established.

Mobility in soil

Mobility in soil: Not established.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Other adverse effects

Environmental precautions: Avoid release to the environment.

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Section 13: Disposal Considerations

Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions: Hazardous waste due to toxicity.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: DINITROANILINES

UN N°: 1596

H.I. nr: 60

ADR - Class: 6.1

Labelling - Transport: 6.1 : Toxic substances.

ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: DINITROANILINES

UN N°: 1596

IMO-IMDG - Class or division: 6.1 : Toxic substances.

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: DINITROANILINES

UN N°: 1596

IATA - Class or division: 6.1 : Toxic substances.

IATA - Packing group: II

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Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental regulations/legislation specific for the substance or mixture:

Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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