OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

2-NITRO ANILINE 98% Pure

(o-Nitro Aniline)

MSDS CAS: 88-74-4

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: 2-NITRO ANILINE 98% Pure
CAS#: 88-74-4
Synonym: o-Nitro Aniline
Chemical Name: Not Available.
Chemical Formula: $C_6H_6N_2O_2$

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,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
2-Nitro Aniline	88-74-4	100

Section 3: Hazards Identification

Risk advice to man and the environment:
Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 4: 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 Consult a physician.

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:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Section 5: Fire and Explosion Data

Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters:
Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions: **Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.**

Environmental precautions:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 6: Accidental Release Measures (Continued)

Methods for cleaning up:
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling:
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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

Section 8: Exposure Controls/Personal Protection

Personal protective equipment
Respiratory protection:
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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

Eye protection: **Safety glasses**

Skin and body protection:
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

Section 9: Physical and Chemical Properties

Appearance Form	**: Crystalline**
Molecular Weight	**: 138.12 g/mole**
pH	**: No data available**
Melting point	**: 70 - 73 °C**
Boiling point	**: 284 °C**
Flash point	**: 167,0 °C - closed cup**
Ignition temperature	**: No data available**
Lower explosion limit	**: No data available**
Upper explosion limit	**: No data available**
Water solubility:	**No data available**

Section 10: Stability and Reactivity Data

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

Materials to avoid: **Strong oxidizing agents.**

Hazardous decomposition products:
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Section 11: Toxicological Information

Acute toxicity: **LD50 Oral - rat - 1.600 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Convulsions or effect on seizure threshold. LC50 Inhalation - rat - 4 h - > 2.529 mg/m3 Remarks: Respiratory disorder Nutritional and Gross Metabolic:Weight loss or decreased weight gain. Nutritional and Gross Metabolic:Changes in:Body temperature decrease.**

Irritation and corrosion: **No data available**

Sensitisation: **Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.**

Chronic exposure
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.**

Section 11: Toxicological Information (Continued)

Signs and Symptoms of Exposure:
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects
Inhalation **May be harmful if inhaled. Causes respiratory tract irritation.**
Skin **May be harmful if absorbed through skin. May Causes skin irritation.**
Eyes **May Causes eye irritation.**
Ingestion **Toxic if swallowed.**
Target Organs **Heart, Lungs, Liver, Blood,**

Section 12: Ecological Information

Elimination information (persistence and degradability)
Bioaccumulation Brachydanio rerio (zebra fish) - 96 h Bioconcentration factor (BCF): 8,1

Ecotoxicity effects
Toxicity to daphnia and other aquatic invertebrates. Immobilization EC50 - Daphnia magna (Water flea) - 4,89 mg/l - 48 h

Further information on ecology
Harmful to aquatic or ganisms, may cause long-term adverse effects in the aquatic environment.

Section 13: Disposal Considerations

Product:
Observe all federal, state, and local environmental regulations. 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 afterburner and scrubber.

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

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name: NITROANILINES (o-, m-, p-)
UN N°: 1661
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: NITROANILINES (o-, m-, p-)
UN N°: 1661
IMO-IMDG - Class or division: 6.1 : Toxic substances.
IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]
Proper shipping name: NITROANILINES (o-, m-, p-)
UN N°: 1661
IATA - Class or division: 6.1 : Toxic substances.
IATA - Packing group: II

Section 15: Other Regulatory Information

Labelling according to EC Directives
EC Label
Hazard symbols
T Toxic
R-phrase(s)
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)
S28 After contact with skin, wash immediately with plenty of .?.
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 where possible).
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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