

**MATERIAL SAFETY DATA SHEET (MSDS)****4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)****1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : 4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)

Product code : N0146905000

Identification of the product : 4-NITROANILINE PURE 98.5%  
CAS No: 100-01-6**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use : Industrial. For professional use only.

**1.3. Details of the supplier of the safety data sheet****Company identification**SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com**1.4. Emergency telephone number**

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

**2. Hazards identification -DSD****2.1. Classification of the substance or mixture****Classification EC 67/548 or EC 1999/45**Classification : T; R23/24/25  
R33  
R52-53**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**Health hazards : Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311  
Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP :  
Aquatic Chronic 3) H412**2.2. Label elements**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)**
**2. Hazards identification -DSD (continued)**
Labelling EC 67/548 or EC 1999/45
**Symbol(s)**

**Symbol(s)**

: 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

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.

Labelling Regulation EC 1272/2008 (CLP)
**Hazard pictograms**

**Signal words**

: Danger

**Hazard statements**

: H301 : Toxic if swallowed.

H311 : Toxic in contact with skin.

H331 : Toxic if inhaled.

H412 : Harmful to aquatic life with long lasting effects.

**Precautionary statements**
**• Prevention**

: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P273: Avoid release to the environment.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

**• Response**

: P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.

P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P363: Wash contaminated clothing before reuse.

P361: Remove immediately all contaminated clothing.

**• Storage**

: P403+P233: Store in well-ventilated place. Keep container tightly closed.

P405: Store locked up.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)**
**2. Hazards identification -DSD (continued)**

- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3. Other hazards**

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**3. Composition/information on ingredients**

**Substance / Preparation** : 4-NITROANILINE PURE 98.5%

Substance.

Contains no other components or impurities which will influence the classification of the product.

**4. First aid measures**
**4.1. 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. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
- Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label).

**4.2. Most important symptoms and effects, both acute and delayed**

- Symptoms relating to use** : Repeated exposure to this material can result in absorption through skin causing significant health hazard.  
Danger of serious damage to health by prolonged exposure through inhalation.  
Swallowing a small quantity of this material will result in serious health hazard.

**4.3. Indication of any immediate medical attention and special treatment needed**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)**
**4. First aid measures (continued)**

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

**5. Fire-fighting measures**
**5.1. 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.

**5.2. Special hazards arising from the substance or mixture**

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

**5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.  
**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. 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.

**6.2. 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.

**6.3. 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.

**6.4. Reference to other sections**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)**
**6. Accidental release measures (continued)**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

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

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**7.2. 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.

**7.3. Specific end use(s)**

**Specific end use(s)** : None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

**8.2. Control parameters**

**Occupational Exposure Limits** : No data available.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

**Physical state at 20 °C** : Solid.

**Colour** : Yellow

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)**
**9. Physical and chemical properties (continued)**

Odour	: Ammonia odor
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 146 - 149 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 180 °C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 213°C
Boiling point [°C]	: 260 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: 4,77
Density [g/cm <sup>3</sup> ]	: 1,44
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Slightly soluble
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 7
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)**
**10. Stability and reactivity (continued)**

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

**10.3. Possibility of hazardous reactions**

**Hazardous reactions** : Not established.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

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

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- **Inhalation** : Toxic if inhaled.
- **Dermal** : Toxic in contact with skin.
- **Ingestion** : Toxic if swallowed.

**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.

**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Harmful to aquatic life with long lasting effects.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)**
**12. Ecological information (continued)**
**12.2. Persistence - degradability**

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

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

**12.4. Mobility in soil**

**Mobility in soil** : Not established.

**12.5. 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.

**12.6. Other adverse effects**

**Environmental precautions** : Avoid release to the environment.

**13. Disposal considerations**
**13.1. 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.

**14. Transport information**
**14.1. 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.



CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

### MATERIAL SAFETY DATA SHEET (MSDS)

## 4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)

#### 14. Transport information (continued)



ADR - Classification code : T2  
ADR - Group : II  
ADR - Packing instructions : P002  
ADR - Limited Quantity : 500 G  
ADR - Tunnel code



: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

#### 14.2. 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  
IMO-IMDG - Packing instructions : P002  
IMO-IMDG - Limited quantities : 500 g  
IMO-IMDG - Marine pollution : No  
EMS-Nr : F-A S-A

#### 14.3. 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  
IATA - Passenger and Cargo Aircraft : ALLOWED  
- Passenger and Cargo - Packing instruction : 669  
- Passenger and Cargo - Maximum Quantity/Packing : 25 kg  
IATA - Cargo only : ALLOWED  
- Cargo only - Packing instruction : 676  
- Cargo only - Maximum Quantity/Packing : 100 kg

**MATERIAL SAFETY DATA SHEET (MSDS)**

**4-NITRO ANILINE (FOR SYNTHESIS) (PARA NITRO ANILINE)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**