

4-NITROANILINE

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Product Code : 16565

1. Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier Trade name : 4-NITROANILINE Product code** : 16595 **Identification of the product** : 4-NITROANILINE 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** : MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email: info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503. **1.4. Emergency telephone number** Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm) **<u>2. Hazards identification -DSD</u>** 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) H331 Environmental hazards : Hazardous to the aquatic environment - Chronic hazard -Category 3 (CLP : Aquatic Chronic 3) H412 **2.2. Label elements** Labelling EC 67/548 or EC 1999/45 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

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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.

• **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.

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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

CAS No :100-01-6

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

<u>5. Fire-fighting measures</u>

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



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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

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.

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• Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

• Hand protection : Wear protective gloves. • Eve 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. **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/cm3] : 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 [mm2/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.

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10. Stability and reactivity 10.1. Reactivity Reactivity : Not established. **10.2.** Chemical stability **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. **12.2.** Persistence - degradability **Persistence - degradability** : May cause long-term adverse effects in the environment. **12.3.** Bioaccumulative potential Bioaccumulative potential : Not established.

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Mobility in soil : Not established. 12.5. Results of PBT and vPvB assessment	nt
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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

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.

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

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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 : 669 instruction - Passenger and Cargo - Maximum : 25 kg **Ouantity/Packing** IATA - Cargo only : ALLOWED - Cargo only - Packing instruction : 676 - Cargo only - Maximum Quantity/: 100 kg Packing IATA - Limited Quantites : 1 kg ERG-Nr: 6L **15. Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **Safety, health and environmental** : Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture **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. **15.2.** Chemical Safety Assessment Chemical Safety Assessment : It has not been carried out. **16.** Other information Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS was

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End of document Prepared by: MOLYCHEM (INDIA)

For questions contact: MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : info@molychem.net Worker Blot No. B/0. Bodlarum M LD C. ODB Shehharot Tartila Co.

Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503

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