

Material Safety Data Sheet N-methylaniline

Section 1: Chemical Product and Company Identification

Product Name : N-methylaniline
Chemical Formula : $C_6H_5NHCH_3$
Company Identification : Tradeasia International Pte Ltd
Email : contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

| Name | CAS# | % by Weight |
|-----------------|----------|-------------|
| N-methylaniline | 100-61-8 | > 98 |

Toxicological Data on Ingredients: N-methylaniline: ORAL (LD50): Acute: 716 mg/kg [Rat.]. DERMAL (LD50): Acute: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant). Slightly hazardous in case of inhalation.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. Classified 4 (No evidence.) by NTP. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, the nervous system and liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

Skin Contact: Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation: Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water.

Section 5: Fire and Explosion Data

Flammability of the Product: Not available.

Products of Combustion: Carbon oxides, Nitrogen oxides (NO_x)

Fire Hazards in Presence of Various Substances: Highly flammable in presence of open flames and sparks, of heat, of oxidizing materials.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Highly explosive in presence of open flames and sparks, of heat, of oxidizing materials.

Fire Fighting Media and Instructions: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Wear self-contained breathing apparatus for firefighting if necessary.

Special Remarks on Fire Hazards: Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal precautions: Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Storage: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at room temperature.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Wear protective gloves and protective clothing, tight sealing safety goggles.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

Section 9: Physical and Chemical Properties

| | |
|-------------------------------|-------------------------|
| Physical state and appearance | : Clear, Liquid |
| Odor | : Not available. |
| Taste | : Not available. |
| Molecular Weight | : 107.15 g/mole |
| Color | : Light yellow |
| pH (1% soln./water) | : 7.6 (AT 1 g/L) |
| Boiling Point | : 194 - 196°C |
| Melting Point | : -57°C |
| Flash Point | : 85°C (CLOSED CUP) |
| Critical Temperature | : Not available. |
| Relative Density | : 0.989 (at 25°C) |
| Vapor Pressure | : 0.453 mm Hg (at 25°C) |
| Vapor Density | : 2.11 (Air = 1) |

| | |
|--|------------------|
| Volatility | : Not available. |
| Odor Threshold | : Not available. |
| Water Solubility | : ca. 30 g/L |
| Partition coefficient: n-octanol/water | : Not available. |
| Ionicity (in Water) | : Not available. |
| Dispersion Properties | : Not available. |
| Solubility | : Not available. |

Section 10: Stability and Reactivity Data

Stability: The product is stable under recommended storage conditions.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials, dust generation.

Incompatibility with various substances: Reactive with strong oxidizing agents, carbon dioxide (CO₂)

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x).

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

Skin corrosion/irritation Skin – Rabbit (N-Methylaniline)

Result: No skin irritation - 4 h

Serious eye damage/eye irritation

Eyes – Rabbit (N-Methylaniline)

Result: Moderate eye irritation

Chronic Effects on Humans: May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. Bladder, Blood, Central Vascular System (CVS), Central nervous system, Eyes, Respiratory system, Kidney, Liver.

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.

Additional Information: RTECS: BY4550000

Cough, Shortness of breath, Headache, Nausea, Vomiting, Absorption into the body leads to the formation of methemoglobin which in delayed 2 to 4 hours or longer., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(N-Methylaniline)

Section 12: Ecological Information

Ecotoxicity: May cause long lasting harmful effects to aquatic life.

EC50 - Daphnia magna (Water flea) - 0,2 mg/l - 48 h(N-Methylaniline)

Biodegradability: Biotic/Aerobic (N-Methylaniline). Result: - Not readily biodegradable.

Bioaccumulation: Cyprinodontidae - 48 h - 250 µg/l(N-Methylaniline). Bioconcentration factor (BCF): 2,6

Mobility in soil: Not available.

Other adverse effects: Very toxic to aquatic life with long lasting effects.

Section 13: Disposal Considerations

Waste Disposal: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Do not reuse container.

Other Information: Waste codes should be assigned by the user based on the application for which the product was used.

California Hazardous Waste Status: This product contains one or more substances that are listed with the State of California as a hazardous waste.

Section 14: Transport Information

DOT Classification:

UN/ID no: UN2294

Hazard Class: 6.1

Packing Group: III

Proper shipping name: N-Methylaniline

Description: UN2294, N-Methylaniline, 6.1, III

Emergency Response Guide Number: 153

IMDG

UN/ID no: UN2294

Hazard Class: 6.1

Packing Group: III

Proper shipping name: N-Methylaniline

Description: UN2294, N-Methylaniline, 6.1, III

EmS-No: F-A, S-A

IATA

UN/ID no: UN2294

Hazard Class: 6.1

Packing Group: III

Proper shipping name: N-Methylaniline

Description: UN2294, N-Methylaniline, 6.1, III

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture No data available

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. Be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.