

MATERIAL SAFETY DATA SHEET

N-METHYL ANILINE (MONO) 98% (For Synthesis) CAS NO. : 100-61-8

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: N-METHYL ANILINE (MONO) 98% (For Synthesis)

CAS#: 100-61-8

C.I. No.: Not available.

Synonym: Monomethylaniline

Chemical Name: N-METHYL ANILINE (MONO) 98% (For Synthesis)

Chemical Formula: C₇H₉N

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
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Section 2: Composition and Information on Ingredients

Substances

Synonyms: Monomethylaniline

Formula: C₇H₉N

Molecular weight: 107.16 g/mol

CAS-No.: 100-61-8

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Cas no.	Concentration
N-Methylaniline	100-61-8	<=100%

Section 3: Hazards Identification

Classification of the substance or mixture

Classification of the substance according to Regulation (EC) No 1272/2008:

Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311

Acute toxicity, Oral (Category 3), H301

Specific target organ toxicity -repeated exposure (Category 2), H373

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Contact with water liberates toxic gas.

Section 4: First Aid Measures

Description of 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.

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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x)

Advice for firefighters

Wear self contained breathing apparatus for fire-fighting if necessary.

Further information

Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low 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.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

Section 7: Handling and Storage

Precautions for safe handling

Avoid inhalation of vapour or mist.

Keep away from sources of ignition -No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Flammable liquids.

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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).

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

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a)Appearance Form	: Form: clear, liquid Color: Light yellow
b)Odour	: No data available.
c)Odour threshold	: No data available.
d)pH	: 7.6 at 1 g/l
e) Melting point/range	: -57 °C-lit.
f)Initial boiling point and boiling range	: 196 °C-lit.
g)Autoignition temperature	: No data available.
h)Flammability (solid, gas)	: No data available.

Section 9: Physical and Chemical Properties (Continued)

i)Upper/lower flammability or explosive limits	: No data available.
j)Flash point [°C]	: 85 °C-closed cup
k)Evaporation rate	: No data available.
l)Vapour pressure	: No data available.
m)Vapour density	: No data available.
n)Relative density,	: 0,989 g/cm ³ at 25 °C
o)Solubility in water	: ca.30 g/l
p)Viscosity	: No data available.
q)Explosive properties	: No data available.
r)Oxidising properties	: No data available.
s)Decomposition temperature	: No data available.
t)Autoignition temperature	: No data available.
u)Molecular Weight	: No data available.

Section 10: Stability and Reactivity Data

Reactivity : No data available.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents, Carbon dioxide (CO₂)

Hazardous decomposition products

Other decomposition products - Hazardous decomposition products formed under fire conditions.-

Carbon oxides

Other decomposition products-No data available.

Section 11: Toxicological Information

Acute toxicity:

No data available

Skin corrosion/irritation

Skin-Rabbit

Result: No skin irritation-4 h

Serious eye damage/eye irritation

Eyes-

Rabbit

Result: Moderate eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

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.

Reproductive toxicity

No data available

Specific target organ toxicity -single exposure

No data available

Specific target organ toxicity -repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS:

BY4550000

Cough, Shortness of breath, Headache, Nausea, Vomiting, 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.

Section 12: Ecological Information

Toxicity: Toxicity to daphnia and other aquatic invertebrates

Persistence - degradability :

Biodegradability: Biotic/Aerobic (N-Methylaniline)

Result: -Not readily biodegradable

Bioaccumulative potential :

Bioaccumulation

Cyprinodontidae-48 h-250 µg/l(N-Methylaniline)

Bioconcentration factor (BCF): 2,6

Mobility in soil : No data available (N-Methylaniline)

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects :

Very toxic to aquatic life with long lasting effects.

Section 13: Disposal Considerations

Waste treatment methods

Product: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : N-METHYLANILINE

UN N° : 2294

ADR - Class : 6.1

Sea transport (IMDG) [English only]

Proper shipping name : N-METHYLANILINE

UN N° : 2294

IMO-IMDG - Class or division : 6.1

IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : N-METHYLANILINE

UN N° : 2294

IATA - Class or division : 6.1

IATA - Packing group : III

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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