

Safety Data Sheet

N-Methylaniline SDS

according to GHS(fifth revised edition)

Version:2.0/EN
Print date:20/01/2016

Section 1 - Chemical Product and Company Identification

Product Name: N-Methylaniline

Catalog Codes:

CAS#: 100-61-8

RTECS: Not available.

TSCA: TSCA 8(b) inventory: N-Methylaniline

CI#: Not available.

Synonym: Monomethylaniline

Chemical Name: N-Methylaniline.

Chemical Formula: C7H9N

EMERGENCY TELEPHONE: 086-371-86181678

Company:

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Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
100-61-8	N-Methylaniline	100%	202-870-9

Hazard Symbols:



Risk Phrases:

T N



23/24/25 33 50/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye: May cause eye irritation. Causes redness and pain.

Skin: Causes symptoms similar to those of inhalation. Toxic in contact with skin. May be harmful if absorbed through the skin. Substance is readily absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Poison by ingestion. May cause effects similar to those for inhalation exposure. May cause damage to the red blood cells.

Inhalation: May cause respiratory tract irritation. Toxic if inhaled. Central nervous system effects may include confusion, ataxia (failure of muscular coordination), vertigo, tinnitus, weakness, disorientation, lethargy, drowsiness, and finally coma. May produce cardiovascular effects.

Chronic: May cause liver and kidney damage. Absorption into the body leads to the formation of methemoglobin which in sufficient concentrations causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Chronic exposure may cause blood effects.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash mouth out with water.

Ingestion: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Inhalation: Treat symptomatically and supportively.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Combustible liquid. Can form explosive mixtures at temperatures above the flashpoint.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not flush into a sewer. Remove all sources of ignition. Use a spark-proof tool.

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 100-61-8:

United Kingdom, WEL - TWA: 0.5 ppm TWA; 2.2 mg/m³ TWA
United Kingdom, WEL - STEL: 1.5 ppm STEL; 6.6 mg/m³ STEL

United States OSHA: 2 ppm TWA; 9 mg/m³ TWA Belgium -
TWA: 0.5 ppm VLE; 2.2 mg/m³ VLE France - VME: 0.5 ppm
VME; 2 mg/m³ VME Germany: 0.5 ppm TWA; 2.2 mg/m³
TWA Germany:
skin notation

Malaysia: 0.5 ppm TWA; 2.2 mg/m³ TWA

Netherlands: 0.5 ppm MAC; 2 mg/m³ MAC

Spain: 0.5 ppm VLA-ED; 2.2 mg/m³ VLA-ED

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear chemical splash goggles.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: yellow to brown

Odor: characteristic odor - sweetish odor

pH: 7.6@1g/l aq.sol.

Vapor Pressure: 0.4 mbar @ 20 deg C

Viscosity: Not available

Boiling Point: 195 deg C @ 760mmHg (383.00 癩)

Freezing/Melting Point: -57 deg C (-70.60 癩)

Autoignition Temperature: 500 deg C (932.00 deg F)

Flash Point: 86 deg C (186.80 deg F)

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature: Not available

Solubility in water: 30 g/l in water

Specific Gravity/Density: 0.987g/cm³

Molecular Formula: C₇H₉N

Molecular Weight: 107.15

Section 10 - Stability and Reactivity

Chemical Stability: May discolor on exposure to air.

Conditions to Avoid: Incompatible materials, ignition sources.

Incompatibilities with Other Materials Strong oxidizing agents, acids, acid chlorides, carbon dioxide, acid anhydrides.

Hazardous Decomposition Products Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 100-61-8: BY4550000

LD50/LC50: RTECS: Not available. Other: Oral, rat: LD50 = ca.360mg/kg

Carcinogenicity: N-Methylaniline - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Bacteria: Pseudomonas putida: EC0 = 1000 mg/l; .

Fish: Leuciscus idus: LC0 = 20 mg/l; 48H; .

Bacteria: Phytobacterium phosphoreum: EC50 = 14 ppm; 30 min.; Microtox test

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	N-METHYLANILINE	N-METHYLANILINE	N-METHYLANILINE
Hazard Class: UN	6.1	6.1	6.1
Number: Packing	2294	2294	2294
Group:	III	III	III

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives Hazard

Symbols: T N

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin
swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may cause long-term
adverse effects in the aquatic environment.

Safety Phrases:

S 28A After contact with skin, wash immediately with plenty of water.

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical

advice immediately(show the label where possible).

S 60 This material and its container must be disposed of as
hazardous waste.

S 61 Avoid release to the environment. Refer to special
instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS 100-61-8: 1

#

Canada 100-61-8 is listed on Canada's DSL List

CAS

#

US Federal

TSCA 100-61-8 is listed on the TSCA Inventory.

Section 16 - Other Information

Other information: This Safety Data Sheet (SDS) was prepared according to UN GHS (the fifth revised edition) and the information included is based on the present state of our knowledge. However, the information is provided without any warranty, express or implied, regarding its correctness and is only for users reference. Users should make their independent judgement of suitability of these information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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