

SAFETY DATA SHEET

Creation Date 26-Nov-2010 Revision Date 23-May-2017 Revision Number 2

1. Identification

Product Name N-Methylaniline

Cat No.: AC126270000; AC126270010; AC126270025; AC126275000

Synonyms Monomethylaniline

Recommended Use Laboratory chemicals.

Uses advised against

Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids
Category 4
Acute oral toxicity
Category 3
Acute dermal toxicity
Category 3
Acute Inhalation Toxicity - Dusts and Mists
Category 3
Specific target organ toxicity - (repeated exposure)
Category 2

Label Elements

Signal Word

Danger

Hazard Statements

Combustible liquid Toxic if swallowed

Toxic in contact with skin

Toxic if inhaled

May cause damage to organs through prolonged or repeated exposure

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Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Take precautionary measures against static discharge

Keep container tightly closed

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Avoid breathing dust/fume/gas/mist/vapors/spray

Do not get in eyes, on skin, or on clothing

Wash face, hands and any exposed skin thoroughly after handling

Response

Get medical attention/advice if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Take off contaminated clothing and wash before reuse

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Fire

Fight fire with normal precautions from a reasonable distance

Storage

Store locked up

Store in a well-ventilated place. Keep cool

Store in a closed container

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
N-Methyl aniline	100-61-8	99

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if

victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket

mask equipped with a one-way valve or other proper respiratory medical device. Immediate

medical attention is required.

Do not induce vomiting. Call a physician or Poison Control Center immediately. Ingestion

Breathing difficulties. May cause methemoglobinemia: Symptoms of overexposure may be Most important symptoms/effects

headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically Notes to Physician

5. Fire-fighting measures

Water spray, Carbon dioxide (CO₂), Dry chemical, Chemical foam, Cool closed containers Suitable Extinguishing Media

exposed to fire with water spray.

No information available **Unsuitable Extinguishing Media**

Flash Point 86 °C / 186.8 °F

Method -**DIN 51758**

Autoignition Temperature 500 °C / 932 °F

Explosion Limits

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Vapors may form explosive mixture with air. Combustible material. Containers may explode when heated. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	N/A

6. Accidental release measures

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with the skin and the eves.

Environmental Precautions

Collect spillage. Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

Up

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not flush into surface water or sanitary sewer system.

7. Handling and storage

Handling

Ensure adequate ventilation. Wear personal protective equipment. Take precautionary measures against static discharges. Use only in area provided with appropriate exhaust ventilation. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eves and clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

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Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Keep away from direct sunlight. Flammables area.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
N-Methyl aniline	TWA: 0.5 ppm	(Vacated) TWA: 0.5 ppm	IDLH: 100 ppm	TWA: 2 ppm
	Skin	(Vacated) TWA: 2 mg/m ³	TWA: 0.5 ppm	TWA: 9 mg/m ³
		(Vacated) TWA: 2 ppm	TWA: 2 mg/m ³	_
		(Vacated) TWA: 8 mg/m ³	_	
		Skin		
		TWA: 2 ppm		
		TWA: 9 mg/m ³		

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location. Use explosion-proof

electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical StateLiquidAppearanceDark yellowOdorAmmonia-like

Odor Threshold No information available

pH 7.6 1 g/l aq.sol **Melting Point/Range** 57 °C / -70.6 °F

Boiling Point/Range 195 °C / 383 °F @ 760 mmHg

Flash Point 86 °C / 186.8 °F

Method - DIN 51758

Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor Pressure0.4 mbar @ 20 °C

Vapor Density 3.7 Specific Gravity 0.987

Solubility No information available

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Partition coefficient: n-octanol/water

Autoignition Temperature Decomposition Temperature

Viscosity

Molecular Formula **Molecular Weight**

No data available 500 °C / 932 °F No information available No information available

C7 H9 N

107.15

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stable under normal conditions. Stability

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Acids, Strong oxidizing agents, Acid anhydrides, Acid chlorides, Carbon dioxide (CO2) **Incompatible Materials**

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO₂), Carbon dioxide (CO₂)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
N-Methyl aniline	360 mg/kg	Not listed	Not listed

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
N-Methyl aniline	100-61-8	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard**

delayed

Symptoms / effects,both acute and May cause methemoglobinemia: Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

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Other Adverse Effects

See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow material to contaminate ground water system. Do not empty into drains. Do not flush into surface water or sanitary sewer system. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
N-Methyl aniline	Not listed	LC50: = 100 mg/L, 96h flow-through (Pimephales promelas)	Not listed	0.174 mg/l LC50 (48h)

Persistence and Degradability Solut

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
N-Methyl aniline	1.82

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN2294

Proper Shipping Name N-METHYLANILINE

Hazard Class 6.1 Packing Group III

TDG

UN-No UN2294

Proper Shipping Name N-METHYLANILINE

Hazard Class 6.1 Packing Group III

IATA

UN-No UN2294

Proper Shipping Name N-METHYLANILINE

Hazard Class 6. Packing Group

IMDG/IMO

UN-No UN2294

Proper Shipping Name N-METHYLANILINE

Hazard Class 6.1 Packing Group III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
N-Methyl aniline	X	Х	-	202-870-9	-		Х	Х	Χ	X	Х

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

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polymer made with any free-radical initiator regardless of the amount used.

- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
N-Methyl aniline	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By Regulatory Affairs

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Creation Date26-Nov-2010Revision Date23-May-2017

N-Methylaniline

Print Date

23-May-2017

Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS