

SAFETY DATA SHEET

Creation Date 19-Apr-2012 Revision Date 22-May-2017 Revision Number 2

1. Identification

Product Name N,N-Dimethylaniline

Cat No.: AC115920000; AC115920010; AC115920025; AC115920050;

AC115920100

Synonyms DMA

Recommended UseLaboratory 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
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

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Acute oral toxicity

Acute dermal toxicity

Acute Inhalation Toxicity - Dusts and Mists

Category 3

Category 3

Category 3

Label Elements

Signal Word

Danger

Hazard Statements

Combustible liquid Toxic if swallowed Toxic in contact with skin Toxic if inhaled

N,N-Dimethylaniline

Precautionary Statements

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

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

Keep cool

Prevention

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

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

Ingestion

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

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Dimethylaniline	121-69-7	>95

4. First-aid measures

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Immediate medical attention is required.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion Call a physician immediately. Clean mouth with water.

Most important symptoms/effects Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting Treat symptomatically

Notes to Physician

5. Fire-fighting measures

Suitable Extinguishing Media

Carbon dioxide (CO₂). Dry chemical. Use water spray to cool unopened containers. Cool

closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media No information available

63 °C / 145.4 °F

Flash Point

Method -No information available

370 °C / 698 °F **Autoignition Temperature**

Explosion Limits

Upper 7.0% Lower 1.2%

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Combustible material. Containers may explode when heated.

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	1	0	N/A

6. Accidental release measures

Personal Precautions Environmental Precautions Remove all sources of ignition. Take precautionary measures against static discharges. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information. Avoid release to the environment, Collect spillage.

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. Wear self-contained breathing apparatus and protective suit. Do not let this chemical enter the environment. Remove all sources of ignition.

7. Handling and storage

Handling

Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Do not ingest. Use only in area provided with appropriate exhaust ventilation. Keep away from open flames, hot surfaces and sources of ignition.

Storage

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

8. Exposure controls / personal protection

Exposure Guidelines

N,N-Dimethylaniline

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Dimethylaniline	TWA: 5 ppm	(Vacated) TWA: 5 ppm	IDLH: 100 ppm	TWA: 5 ppm
	STEL: 10 ppm	(Vacated) TWA: 25 mg/m ³	TWA: 5 ppm	TWA: 25 mg/m ³
	Skin	(Vacated) TWA: 2 ppm	TWA: 25 mg/m ³	STEL: 10 ppm
		(Vacated) TWA: 8 mg/m ³	STEL: 10 ppm	STEL: 50 mg/m ³
		(Vacated) STEL: 10 ppm	STEL: 50 mg/m ³	
		(Vacated) STEL: 50 mg/m ³		
		Skin		
		TWA: 5 ppm		
		TWA: 25 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.

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 StateLiquidAppearanceYellowOdorFishy

Odor Threshold No information available

pH 7.4 1 g/l water

Melting Point/Range 1.5 - 2.5 °C / 34.7 - 36.5 °F

Boiling Point/Range 193 - 194 °C / 379.4 - 381.2 °F @ 760 mmHg

Flash Point 63 °C / 145.4 °F
Evaporation Rate No information available

Flammability (solid,gas)

Not applicable

Flammability or explosive limits

Upper 7.0% Lower 1.2%

Vapor Pressure 0.53 mbar @ 20 °C
Vapor Density No information available

Specific Gravity 0.950

SolubilityNo information availablePartition coefficient; n-octanol/waterNo data availableAutoignition Temperature370 °C / 698 °FDecomposition TemperatureNo information available

Viscosity

No information available

Molecular FormulaC8 H11 NMolecular Weight121.18

10. Stability and reactivity

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None known, based on information available Reactive Hazard

Stability Stable under normal conditions.

Conditions to Avoid Excess heat. Exposure to air. Exposure to light. Incompatible products. Keep away from

open flames, hot surfaces and sources of ignition.

Acids, Strong oxidizing agents, Halogens, Acid anhydrides, Acid chlorides, Chloroformates **Incompatible Materials**

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), 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
Dimethylaniline	LD50 = 951 mg/kg (Rat)	LD50 = 1770 μL/kg (Rabbit)	LC50 > 0.5 - 5.0 mg/L (Rat) 4 h

Toxicologically Synergistic

No information available

Products

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

No information available Irritation

Sensitization No information available

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Dimethylaniline	121-69-7	Not listed				

No information available **Mutagenic Effects**

No information available. **Reproductive Effects**

No information available. **Developmental Effects**

No information available. **Teratogenicity**

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

Aspiration hazard No information available

delayed

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

See actual entry in RTECS for complete information. Other Adverse Effects

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

N,N-Dimethylaniline

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Dimethylaniline	EC50: = 340 mg/L, 96h	LC50: 0.183 - 0.186 mg/L,	EC50 = 110 mg/L 24 h	EC50: = 5 mg/L, 48h
1	(Desmodesmus	96h (Brachydanio rerio)	EC50 = 13.6 mg/L 5 min	(Daphnia magna)
	subspicatus)	LC50: = 51.1 mg/L, 96h	EC50 = 14.6 mg/L 30 min	
		semi-static (Brachydanio		
		rerio)		
		LC50: = 53.7 mg/L, 96h		
		semi-static (Poecilia		
		reticulata)		
		LC50: = 65.6 mg/L, 96h		
		(Pimephales promelas)		
		LC50: = 52.6 mg/L, 96h		
		flow-through (Pimephales		
		promelas)		

Persistence and Degradability

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
Dimethylaniline	2.278

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 UN2253 Hazard Class 6.1 Packing Group II

TDG

UN-No UN2253
Hazard Class 6.1
Packing Group II

IATA

UN-No 2253

Proper Shipping Name N,N-DIMETHYLANILINE

Hazard Class 6.1 Packing Group II

IMDG/IMO

UN-No 2253

Proper Shipping Name N,N-DIMETHYLANILINE

Hazard Class 6.1 Packing Group II

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Dimethylaniline	Χ	Χ	-	204-493-5	1		Χ	Χ	Χ	Χ	Χ

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

N,N-Dimethylaniline

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

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Dimethylaniline	121-69-7	>95	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

CWA (Clean Water Act)

Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Dimethylaniline	X		-

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Dimethylaniline	100 lb	=

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
Г	Dimethylaniline	X	X	X	Х	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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 19-Apr-2012

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 22-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