

# SAFETY DATA SHEET

Creation Date 18-Jan-2011

Revision Date 24-Dec-2021

Revision Number 5

 1. Identification

 Product Name
 N,N-Dimethyl-p-toluidine

 Cat No. :
 AC116900000; AC116900025; AC116900050; AC116901000; AC116905000

 CAS No
 99-97-8

 Synonyms
 N,N,4-Trimethylbenzenamine

 Recommended Use
 Laboratory chemicals.

 Uses advised against
 Food, drug, pesticide or biocidal product use.

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**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 Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Vapors Specific target organ toxicity - (repeated exposure) Target Organs - Reproductive System	Category 4 Category 3 Category 3 Category 3 Category 2
Target Organs - Reproductive System.	

#### Label Elements

Signal Word Danger

Hazard Statements

Combustible liquid

May cause damage to organs through prolonged or repeated exposure Toxic if swallowed, in contact with skin or if inhaled



#### **Precautionary Statements** Prevention

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 Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep cool 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 Remove/Take off immediately all contaminated clothing Wash contaminated clothing before reuse Indestion 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)

# Harmful to aquatic life with long lasting effects

WARNING. Cancer - https://www.p65warnings.ca.gov/.

# 3. Composition/Information on Ingredients

Component		CAS No	Weight %
Benzenamine, N,N,4-trimethyl-		99-97-8	>95
	4. F	irst-aid measures	
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.		
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. 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.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	83 °C / 181.4 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

### Specific Hazards Arising from the Chemical

Combustible material. Risk of ignition. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

## Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### **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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 2	Instability 0	Physical hazards N/A			
	6. Accidental release measures					
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.					
Environmental Precautions	Should not be released into					

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Acids. Strong oxidizing agents. Acid anhydrides. Acid chlorides. Carbon dioxide (CO2).		
8. Ex	kposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. 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 protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties				
Physical State	Liquid			
Appearance	Yellow			
Odor	Sweet			
Odor Threshold	No information available			
рН	No information available			
Melting Point/Range	No data available			
Boiling Point/Range	211 °C / 411.8 °F @ 760 mmHg			
Flash Point	83 °C / 181.4 °F			
Evaporation Rate	No information available			
Flammability (solid,gas)	Not applicable			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	No information available			
Vapor Density	No information available			
Specific Gravity	0.930			
Solubility Insoluble in water				
Partition coefficient; n-octanol/water No data available				
Autoignition Temperature	No information available			
Decomposition Temperature	No information available			
Viscosity	No information available			
Molecular Formula	C9 H13 N			
Molecular Weight	135.21			

# 10. Stability and reactivity

Reactive HazardNone known, based on information availableStabilityStable under normal conditions.

Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.	
Incompatible Materials	Acids, Strong oxidizing agents, Acid anhydrides, Acid chlorides, Carbon dioxide (CO2)	
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	

# 11. Toxicological information

# Acute Toxicity

# Product Information

Component Informat					- 1		
Component Benzenamine, N,N,4-trimethyl-		LD50 Oral	L DE0 -	LD50 Dermal		LC50 Inhalation LC50 = 1400 mg/m <sup>3</sup> (Rat) 4 h	
Denzenamine, N,N,4-	unneuryi-	250 mg/kg (Mouse)				mg/m <sup>3</sup> (Rat) 4 n	
Toxicologically Synergistic No information available							
Products	Jene						
Delayed and immedia	ate effects	as well as chronic effe	cts from short a	nd long-term expos	<u>sure</u>		
Irritation		No information ava	ilable				
Sensitization		No information ava	ilable				
Carcinogenicity		The table below inc	dicates whether e	ach agency has liste	ed any ingredient	as a carcinogen.	
Component	CAS No	D IARC	NTP	ACGIH	OSHA	Mexico	
Benzenamine, N,N,4-trimethyl-	99-97-8	3 Group 2B	Not listed	Not listed	Х	Not listed	
Mutagenic Effects		No information ava	No information available				
Reproductive Effects	6	No information ava	ilable.				
Developmental Effec	ts	No information ava	No information available.				
Teratogenicity		No information ava	No information available.				
STOT - single expos STOT - repeated exp		None known Reproductive Syste	None known Reproductive System				
Aspiration hazard		No information ava	No information available				
Symptoms / effects, delayed	both acute	and Symptoms of overe	<b>d</b> Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting				
Endocrine Disruptor	Informatio	n No information ava	No information available				
Other Adverse Effect	ts	The toxicological p	The toxicological properties have not been fully investigated.				
		12. Ecolo	ogical infor	mation			

#### **Ecotoxicity**

This product contains the following substance(s) which are hazardous for the environment. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

Benzenamine, N,N,4-trimethyl-	Not listed	LC50: 42 - 50.5 mg/L, 96h flow-through (Pimephales promelas)	Not listed	Not listed
Persistence and Degrada	ability based on inf	formation available. May pe	rsist	
Bioaccumulation/ Accumulation No information available.				

. Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the environment due its low water solubility.

	Component log Pow	Component
Benzenamine, N,N,4-trimethyl- 2.81	Benzenamine, N,N,4-trimethyl- 2.81	Benzenamine, N,N,4-trimethyl-

# 13. Disposal considerations

Waste Disposal Methods

Mobility

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	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s.
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s.
Hazard Class	6.1
Packing Group	III
UN-No	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s.
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s.
Hazard Class	6.1
Packing Group	111
	15 Regulatory inf

## 15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzenamine, N,N,4-trimethyl-	99-97-8	Х	ACTIVE	-

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzenamine, N,N,4-trimethyl-	99-97-8	Х	-	202-805-4	Х	Х	Х	Х	Х	KE-34407

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

## California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Benzenamine,	99-97-8	Carcinogen	-	Carcinogen
N,N,4-trimethyl-				
U.S. State Right-to-Know	Not applicable	Э		

### Regulations

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### **U.S. Department of Transportation**

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν
U.S. Department of Homeland	This product does not contain any DHS chemicals.
Security	

### **Other International Regulations**

Mexico - Grade

No information available

### Authorisation/Restrictions according to EU REACH

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzenamine, N,N,4-trimethyl-	99-97-8	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzenamine, N,N,4-trimethyl-	99-97-8	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	18-Jan-2011 24-Dec-2021 24-Dec-2021 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**