

# SAFETY DATA SHEET

Revision Date 26-Jan-2018

**Revision Number** 3

	1. Identification				
Product Name 4,4`-Methylenebis(N,N-dimethylaniline)					
Cat No. :	AC126740000; AC126740050; AC126741000; AC126745000				
CAS-No Synonyms	101-61-1 Tetrabase; p,p`-Tetramethyldiamindiphenylmethane				
Recommended Use Uses advised against Details of the supplier of the	· ···· · · · · · · · · · · · · · · · ·				
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410				
Emergency Number US:001-2	<b>Der</b> 00-ACROS-01 / <b>Europe</b> call: +32 14 57 52 11 01-796-7100 / <b>Europe:</b> +32 14 57 52 99 300-424-9300 / <b>Europe:</b> 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)

Carcinogenicity

Category 1B

#### Label Elements

Signal Word Danger

Hazard Statements May cause cancer



## Precautionary Statements

Prevention Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required **Response** IF exposed or concerned: Get medical attention/advice **Storage** Store locked up **Disposal** Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> Very toxic to aquatic life with long lasting effects WARNING. Cancer - https://www.p65warnings.ca.gov/.

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
4,4'-Methylenebis(N,N-dimethyl) benzenamine	101-61-1	> 99

4. First-aid measures				
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also unde 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. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.			
Ingestion	Never give anything by mouth to an unconscious person. Drink plenty of water. Induce vomiting, but only if victim is fully conscious. Call a physician immediately. Clean mouth w water.			
Most important symptoms and effects	No information available.			
Notes to Physician	Treat symptomatically			
	5. Fire-fighting measures			
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.			
Unsuitable Extinguishing Media	No information available			
Flash Point	178 °C / 352.4 °F			
Method -	No information available			

Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	t No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

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 (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.

<u>NFPA</u> H	lealth 0	<b>Flammability</b> 0	Instability 0	Physical hazards N/A		
		6. Accidental release	e measures			
	rsonal PrecautionsEnsure adequate ventilation. Use personal protective equipment as required. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.					
Methods for 0 Up	Containment and Clear	n Prevent product from entering dra disposal. Do not flush into surface				
		7. Handling and s	storage			
Handling		Do not breathe dust. Do not get in closed system or provide appropri		Handle product only in		
Storage	StorageKeep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.					
	8. Exposure controls / personal protection					
Exposure Gui	idelines_	This product does not contain any limitsestablished by the region spe		upational exposure		
Engineering I	Measures	Ensure adequate ventilation, espe and safety showers are close to th		e that eyewash stations		
Personal Prot	tective Equipment					
Eye/face F	Protection	Wear appropriate protective eyegl OSHA's eye and face protection re EN166.				
Skin and I	body protection	Wear appropriate protective glove	s and clothing to prevent skin	exposure.		
Respirato	ry 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 N	<i>l</i> easures	Handle in accordance with good ir	idustrial hygiene and safety pr	actice.		

## 9. Physical and chemical properties

**Physical State** Appearance Odor **Odor Threshold** pН . Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight** 

Solid Blue Odorless No information available No information available 86 - 90 °C / 186.8 - 194 °F 390 °C / 734 °F @ 760 mmHg 178 °C / 352.4 °F Not applicable No information available

No data available No data available No information available No applicable No information available No information available No data available No information available No information available No tapplicable C17 H22 N2 254.37

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products.		
Incompatible Materials	Acids, Acid anhydrides, Acid chlorides		
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	No information available.		
Hazardous Reactions	None under normal processing.		
Hazardous Decomposition Product Hazardous Polymerization	<b>s</b> Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) No information available.		

11. Toxicological information

#### Acute Toxicity

Component Information	No acute toxicity information is					
Component	LD50 Oral LD50 Dermal LC50					
4,4'-Methylenebis(N,N-dimethyl) benzenamine	LD50 = 3160 mg/kg ( Rat ) Not listed Not listed					
Foxicologically Synergistic Products <u>Delayed and immediate effects</u>	No information available as well as chronic effects from sh	ort and long-term exposu	re_			
rritation	No information available					
Sensitization	No information available					
Carcinogenicity	The table below indicates whe	thar analy aganay has listed	any ingradient on a parainage			

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
4,4'-Methylenebis(N,N- dimethyl)	101-61-1	Group 2B	Reasonably Anticipated	Not listed	Х	Not listed	
benzenamine			I <u></u>				
Mutagenic Effects		No information available					
Reproductive Effects No information available.							
Developmental Effect	ts	No information ava	ailable.				
Teratogenicity		No information available.					
STOT - single expos STOT - repeated exp		None known None known					
Aspiration hazard		No information available					
Symptoms / effects, delayed	both acute and	nd No information available					
Endocrine Disruptor	Information	No information available					
Other Adverse Effec	ts	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. The product contains following substances which are hazardous for the environment.

Persistence and Degradability	Insoluble in water		
Bioaccumulation/ Accumulation No information available.			
Mobility	Is not likely mobile in the environment due its low water solubility.		
	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.

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	14. Transport information
DOT	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
<u>TDG</u>	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
IATA	
UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
Hazard Class	9
Packing Group	
IMDG/IMO	
UN-No	UN3077

Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.	
Hazard Class	9	
Packing Group	III	
	15. Regulatory information	

#### United States of America Inventory

Componer	nt	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
4,4'-Methylenebis(N, benzenamir	, ,	101-61-1	Х	ACTIVE	-

#### Legend:

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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
4,4'-Methylenebis(N,N-dimethyl)	101-61-1	Х	-	202-959-2	Х	Х	Х	Х	KE-23820
benzenamine									

#### U.S. Federal Regulations

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %	
4,4'-Methylenebis(N,N-dimethyl) benzenamine	101-61-1	> 99	0.1	
SARA 311/312 Hazard Categories See section	n 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

Not applicable

#### CERCLA

**California Proposition 65** 

This product contains the following Proposition 65 chemicals.

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
4,4'-Methylenebis(N,N-di	101-61-1	Carcinogen	20 µg/day	Carcinogen
methyl) benzenamine				
U.S. State Right-to-Know				

#### Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
4,4'-Methylenebis(N,N-di	Х	Х	Х	Х	-
methyl) benzenamine					

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

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

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 Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Revision Date Print Date Revision Summary	26-Jan-2018 26-Jan-2018 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**