

cdhfinechemical.com

4,4-Bis(Dimethylamino-Phenyl) Methane CAS No 101-61-1

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 **Product identifiers** 4,4-Bis(Dimethylamino-Phenyl) Methane Product name CAS-No. : 101-61-1 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Laboratory chemicals, Industrial & for professional use only. 1.3 Details of the supplier of the safety data sheet : Central Drug House (P) Ltd Company 7/28 Vardaan House Ansari Road Daryagani New Delhi-110002 INDIA Telephone +91 11 49404040 Email care@cdhfinechemical.com 1.4 **Emergency telephone number** Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Carcinogenicity (Category 1B), H350 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Danger

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Hazard statement(s) H350 H410

May cause cancer. Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P501	Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements	none

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	N,N,N ,N -Tetramethyl-4,4 -diaminodiphenylmethane N,N,N ,N -Tetramethyl-4,4 -methylenedianiline Arnolds base
Formula	:	C _{17H22N2}
Molecular weight	:	254.37 g/mol
CAS-No.	:	101-61-1
EC-No.	:	202-959-2
Index-No.	:	612-201-00-6

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

Concentration

N,N,N',N'-Tetramethyl-4,4'-methylenedianiline Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

CAS-No.	101-61-1	Carc. 1B; Aquatic Acute 1;	<= 100 %
EC-No.	202-959-2	Aquatic Chronic 1; H350,	
Index-No.	612-201-00-6	H400, H410	
		M-Factor - Aquatic Acute: 10	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible solids, toxic
- **7.3** Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

lit.

SECTION 9: Physical and chemical properties

9.2

No data available

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline powder Colour: Blackish grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pН	No data available
e)	Melting point/freezing point	Melting point/range: 85 - 88 °C -
f)	Initial boiling point and boiling range	No data available
g)	Flash point	178 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	log Pow: 4.641
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Oth	ner safety information	

SECTION 10: Stability and reactivity

- 10.1 Reactivity No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid No data available
- **10.5** Incompatible materials Strong oxidizing agents
- 10.6 Hazardous decomposition products
 Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NOx)
 Other decomposition products No data available
 In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - Mouse - 3,160 mg/kg(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

Skin corrosion/irritation No data available(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

Serious eye damage/eye irritation No data available(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

Respiratory or skin sensitisation No data available(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

Germ cell mutagenicity

No data available(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

Carcinogenicity

This product is or contains a component that has been reported to be proba EPA classification.(N,N,N',N'Tetramethyl-4,4'-methylenedianiline) Possible human carcinogen(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline) (N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

Specific target organ toxicity - single exposure No data available(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

Additional Information

RTECS: BY5250000

Absorption into the body leads to the formation of methemoglobin which in delayed 2 to 4 hours or longer.(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

SECTION 12: Ecological information

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- **12.4 Mobility in soil** No data available(N,N,N',N'-Tetramethyl-4,4'-methylenedianiline)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

	ADR/RID: 3	077	IMDG: 3077	IATA: 3077
14.2		shipping name		
	ADR/RID:	4,4'-methylenedianiline	(HAZARDOUS SUBSTANCE, SOL	ID, N.O.S. (N,N,N,N - Tetrametry-
	IMDG:	, ,	HAZARDOUS SUBSTANCE, SOLID	, N.O.S. (N,N,N',N'-Tetramethyl-
	IATA:	, ,	lous substance, solid, n.o.s. (N,N,N',	N'-Tetramethyl-4,4'-
14.3	Transport h ADR/RID: 9	azard class(es)	IMDG: 9	IATA: 9
14.4	Packaging ADR/RID: II	• •	IMDG: III	IATA: III
14.5	Environmer ADR/RID: y	n tal hazards /es	IMDG Marine pollutant: no	IATA: yes
14.6	Special pre	cautions for user		

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.