

# Safety Data Sheet

## TDA 90% Vicinal

Revision date : 2018/03/06  
Version: 3.0

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(30113410/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

**TDA 90% Vicinal**

#### Recommended use of the chemical and restriction on use

Recommended use\*: Intermediate

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Molecular formula: C7 H10 N2  
Chemical family: Contains: amine

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Aquatic Chronic	2	Hazardous to the aquatic environment - chronic
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Acute Tox.	3 (dermal)	Acute toxicity
Acute Tox.	3 (oral)	Acute toxicity
Acute Tox.	4 (Inhalation - vapour)	Acute toxicity
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Skin Sens.	1	Skin sensitization
Muta.	2	Germ cell mutagenicity

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Carc.	1B	Carcinogenicity
Repr.	2 (fertility)	Reproductive toxicity
STOT RE	2	Specific target organ toxicity — repeated exposure

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H319	Causes serious eye irritation.
H311	Toxic in contact with skin.
H332	Harmful if inhaled.
H301	Toxic if swallowed.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility.
H350	May cause cancer.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs (Liver, Testes) through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P260	Do not breathe dust/gas/mist/vapours.
P202	Do not handle until all safety precautions have been read and understood.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361	IF ON SKIN (or hair): Wash with plenty of soap and water.
P361	Take off immediately all contaminated clothing.
P301 + P330	IF SWALLOWED: rinse mouth.
P391	Collect spillage.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

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P501 Dispose of contents/container to hazardous or special waste collection point.

### Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
496-72-0	>= 50.0 - < 75.0%	4-methyl-o-phenylene diamine
2687-25-4	>= 25.0 - < 50.0%	toluene-2,3-diamine
25376-45-8	>= 3.0 - < 5.0%	1,3-Benzenediamine, ar-methyl-
95-80-7	>= 1.0 - < 3.0%	4-methyl-m-phenylene diamine
823-40-5	>= 1.0 - < 3.0%	2-methyl-m-phenylene diamine
26915-12-8	>= 0.3 - < 1.0%	Benzenamine, ar-methyl-

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Remove contaminated clothing.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

#### If on skin:

Wash affected areas thoroughly with soap and water. Skin contact with hot molten substance/product may cause thermal burns. Immediate medical attention required.

#### If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

#### If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

### Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, allergic symptoms

*Information on: Toluenediamine*

*Symptoms: Overexposure may cause:, unconsciousness, cyanosis, death, methaemoglobinaemia, headache, dizziness, dermatitis, urticaria, irritation of respiratory tract*

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Hazards: Symptoms can appear later.

### Indication of any immediate medical attention and special treatment needed

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### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
water spray, foam, carbon dioxide

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
No particular hazards known.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Breathing protection required. Avoid contact with the skin, eyes and clothing.

### Environmental precautions

Substance/product is RCRA hazardous due to its properties.

### Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

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## 7. Handling and Storage

### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Refill and handle product only in closed system.

Protection against fire and explosion:

No explosion proofing necessary.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate), glass, Galvanized carbon steel (Zinc), Stainless steel 1.4301 (V2), Stainless steel 1.4401, Stove-lacquer Valspar HXC0001

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Unsuitable materials for containers: Low density polyethylene (LDPE), Paper/Fibreboard, High density polyethylene (HDPE)

Further information on storage conditions: No special precautions necessary. Avoid extreme heat. Store protected against freezing.

Storage stability:  
Protect against moisture.

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### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

Benzenamine, ar-methyl-	OSHA PEL	Skin Designation ; The substance can be absorbed through the skin. PEL 5 ppm 19 mg/m <sup>3</sup> ; SKIN_FINAL ; The substance can be absorbed through the skin. TWA value 2 ppm 8 mg/m <sup>3</sup> ;
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#### **Advice on system design:**

Provide local exhaust ventilation to control vapours/mists.

#### **Personal protective equipment**

##### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

##### **Hand protection:**

Chemical resistant protective gloves, Suitable materials, butyl rubber

##### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

##### **Body protection:**

Suitable materials, butyl rubber, Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### **General safety and hygiene measures:**

Avoid inhalation of dust. Wear protective clothing as necessary to minimize contact. Employees should shower at the end of the shift. Remove contaminated clothing. Wash soiled clothing immediately.

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### 9. Physical and Chemical Properties

Form:	semi-solid
Odour:	ammonia-like, faint odour
Odour threshold:	not applicable
Colour:	violet
pH value:	> 7
Melting point:	< 100 °C ( 760 mmHg)
Boiling point:	< 285 °C ( 760 mmHg)
Sublimation point:	No applicable information available.

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Flash point:	> 110 °C
Flammability:	not flammable
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Autoignition:	> 360 °C
Vapour pressure:	2.23 mmHg ( 100 °C)
Density:	approx. 1.1 g/cm <sup>3</sup> ( 25 °C)
Relative density:	No applicable information available.
Bulk density:	8.64 lb/USg ( 20 °C)
Vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Thermal decomposition:	No decomposition if correctly stored and handled.
Viscosity, dynamic:	5 mPa.s ( 25 °C)
Viscosity, kinematic:	No applicable information available.
Solubility in water:	( 20 °C) of low solubility
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

## 10. Stability and Reactivity

### Reactivity

No applicable information available.

Oxidizing properties:  
not fire-propagating

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

Evolution of heat under influence of acids.

### Conditions to avoid

No conditions known that should be avoided.

### Incompatible materials

oxidizing agents, acids

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon monoxide, ammonia, hydrogen cyanide, nitrogen oxides  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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Thermal decomposition:  
No decomposition if correctly stored and handled.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after short-term inhalation. Of high toxicity after single ingestion. Of pronounced toxicity after short-term skin contact.

#### Oral

Type of value: LD50

Species: rat

Value: 150 mg/kg

#### Inhalation

Type of value: LC50

Species: rat

Value: 181 ppm

Exposure time: 4 h

#### Dermal

Type of value: LD50

Species: rat

Value: 463 mg/kg

#### Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Not expected to be a skin irritant.

#### Eye

Result: Irritant.

Method: BASF-Test

#### Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

sensitizing effect in animal tests

#### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs.

#### Genetic toxicity

Assessment of mutagenicity: Mutagenic properties can not be excluded on the basis of experimental data.

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### Carcinogenicity

Assessment of carcinogenicity: The substance caused cancer in animal studies.

*Information on: 1,3-Benzenediamine, ar-methyl-*

*Assessment of carcinogenicity: The substance caused cancer in animal studies.*

*Information on: 4-methyl-m-phenylene diamine*

*Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).*

*Information on: Benzenamine, ar-methyl-*

*Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.*

### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect.

### Other Information

Carcinogenic in animal tests after oral administration. Skin resorption hazard.

## Symptoms of Exposure

Eye irritation, allergic symptoms

### Medical conditions aggravated by overexposure

Individuals with allergic history or pre-existing dermatitis should use extra precautions when handling this product. The substance may cause sensitization of the skin in particularly sensitive individuals.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Aquatic invertebrates

EC50 (48 h) 1.73 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Literature data. Nominal concentration.

#### Aquatic plants

EC50 (72 h) 0.383 mg/l (growth rate), *Desmodosmus subspicatus* (OECD Guideline 201, static)

Literature data. The statement of the toxic effect relates to the analytically determined concentration.

#### Toxicity to fish

*Information on: 1,3-Benzenediamine, ar-methyl-*

*LC50 (96 h) 393 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)*

*LC50 (96 h) 0.414 mg/l (OECD Guideline 203, Flow through.)*

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.*

*LC50 (96 h) 283 mg/l (OECD Guideline 203, semistatic)*



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*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

*Information on: Benzenamine, ar-methyl-  
LC50 (14 d) 10.7 mg/l, Poecilia reticulata (semistatic)  
The details of the toxic effect relate to the nominal concentration.  
LC50 (96 h) 115 mg/l, Brachydanio rerio (OECD Guideline 203, static)  
The statement of the toxic effect relates to the analytically determined concentration.  
LC50 (96 h) 149 mg/l, Pimephales promelas (OECD 203; ISO 7346; 84/449/EEC, C.1, Flow through.)  
The statement of the toxic effect relates to the analytically determined concentration.*

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### Aquatic invertebrates

*Information on: 1,3-Benzenediamine, ar-methyl-  
EC50 (48 h) 1.6 mg/l, Daphnia magna (semistatic)  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

*Information on: Benzenamine, ar-methyl-  
EC50 (48 h) 0.12 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)  
The statement of the toxic effect relates to the analytically determined concentration.*

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### Aquatic plants

*Information on: 1,3-Benzenediamine, ar-methyl-  
EC50 (72 h) 39 mg/l (growth rate), Desmodosmus subspicatus (OECD Guideline 201, static)  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

*Information on: Benzenamine, ar-methyl-  
EC50 (72 h) 24 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201)*

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### Chronic toxicity to fish

*Information on: 1,3-Benzenediamine, ar-methyl-  
No observed effect concentration (10 d) 3.16 mg/l, Brachydanio rerio (OECD Guideline 212, Flow through.)  
The details of the toxic effect relate to the nominal concentration.*

*Information on: Benzenamine, ar-methyl-  
No observed effect concentration 0.6 mg/l, Oryzias latipes (OECD Guideline draft)*

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### Chronic toxicity to aquatic invertebrates

*Information on: 1,3-Benzenediamine, ar-methyl-  
No observed effect concentration (21 d) 0.282 mg/l, Daphnia magna (OECD Guideline 211, semistatic)  
The statement of the toxic effect relates to the analytically determined concentration.  
No observed effect concentration (28 d) 125 mg/kg sediment dw, Chironomus riparius (OECD 218, static)*

*Information on: Benzenamine, ar-methyl-  
No observed effect concentration (21 d) 0.011 mg/l, Daphnia magna (OECD Guideline 211)*

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### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

*Information on: 1,3-Benzenediamine, ar-methyl-  
DIN EN ISO 8192-OECD 209-88/302/EEC,P. C aquatic  
activated sludge/EC50 (3 h): > 100 mg/l  
Nominal concentration.*

*Information on: Benzenamine, ar-methyl-  
OECD Guideline 209 aquatic  
activated sludge of a predominantly domestic sewage/EC20 (180 min): < 100 mg/l  
The details of the toxic effect relate to the nominal concentration.*

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### Persistence and degradability

#### Elimination information

0 % (28 d) (aerobic) Poorly biodegradable.

### Additional information

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Incinerate in a licensed facility. Do not discharge substance/product into sewer system. Dispose of in a RCRA-licensed facility.

### **Container disposal:**

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. If containers are not empty, they must be disposed of in a RCRA-licensed facility.

**RCRA:** U221

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## 14. Transport Information

### **Land transport**

USDOT

Hazard class:	6.1
Packing group:	III
ID number:	UN 2811
Hazard label:	6.1, EHSM
Proper shipping name:	TOXIC SOLID, ORGANIC, N.O.S. (contains TOLUENEDIAMINE)

### **Sea transport**

IMDG

Hazard class:	6.1
Packing group:	III

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ID number: UN 2811  
Hazard label: 6.1, EHSM  
Marine pollutant: YES  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (contains TOLUENEDIAMINE)

### Air transport

IATA/ICAO

Hazard class: 6.1  
Packing group: III  
ID number: UN 2811  
Hazard label: 6.1  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (contains TOLUENEDIAMINE)

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### EPCRA 313:

##### CAS Number

95-80-7

496-72-0

823-40-5

25376-45-8

##### Chemical name

4-methyl-m-phenylene diamine

4-methyl-o-phenylene diamine

2-methyl-m-phenylene diamine

1,3-Benzenediamine, ar-methyl-

#### CERCLA RQ

10 LBS

##### CAS Number

496-72-0; 2687-

25-4; 95-80-7;

823-40-5; 25376-

45-8

##### Chemical name

4-methyl-o-phenylene diamine; toluene-2,3-diamine; 4-

methyl-m-phenylene diamine; 2-methyl-m-phenylene

diamine; 1,3-Benzenediamine, ar-methyl-

### State regulations

#### State RTK

PA

#### CAS Number

95-80-7

496-72-0

823-40-5

25376-45-8

25376-45-8

95-80-7

#### Chemical name

4-methyl-m-phenylene diamine

4-methyl-o-phenylene diamine

2-methyl-m-phenylene diamine

1,3-Benzenediamine, ar-methyl-

1,3-Benzenediamine, ar-methyl-

4-methyl-m-phenylene diamine

### Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

**WARNING:** This product can expose you to chemicals including 2,4-DIAMINOTOLUENE, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### NFPA Hazard codes:

Health: 3

Fire: 1

Reactivity: 1

Special:

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### HMIS III rating

Health: 3 $\square$  Flammability: 1 Physical hazard: 1

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations  
SDS Prepared on: 2018/03/06

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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