

# TCI AMERICA SAFETY DATA SHEET

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: o-Dianisidine Dihydrochloride [for Biochemical Research]

Product code: D389

Product use: For laboratory research purposes.

Restrictions on use: Not for drug or household use.

Company: TCI America

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Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

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Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

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TCI America

**Environmental Health Safety and Security** 

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## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4] WHMIS 2015: Germ Cell Mutagenicity [Category 2]

Carcinogenicity [Category 2]

Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Signal word: Warning!

Hazard Statement(s): Harmful if swallowed

Suspected of causing genetic defects

Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure: Kidney

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, mist, vapors or spray. Do not eat, drink or smoke when using

this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective

clothing, face protection.

[Response] If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If exposed or concerned:

Get medical advice or attention.

[Storage] Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

[HNOC]

Sternutator

#### COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: o-Dianisidine Dihydrochloride [for Biochemical Research]

Percent: >98.0%(HPLC) CAS RN: 20325-40-0 Molecular Weight: 317.21

**Chemical Formula:** C14H16N2O2 · 2HCI

Synonyms: 3,3'-Dimethoxybenzidine Dihydrochloride, 4,4'-Diamino-3,3'-dimethoxybiphenyl Dihydrochloride, Fast

Blue B · 2HCl

# 4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get Eye contact:

medical advice/attention.

Ingestion: Get medical advice/attention. Rinse mouth.

Symptoms/effects:

Acute: No data available

Delayed: May cause heritable genetic damage in humans. Possibly carcinogenic to humans.

#### Indication of any immediate medical attention:

Not available. Notes to physician: No data available

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising from the

chemical:

Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides Halogenated compounds

Other specific hazards:

WARNING: Highly toxic HCl gas is produced during combustion.

Wear self-contained breathing apparatus if possible. Advice for firefighters:

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

**Environmental precautions:** 

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains.

Methods and materials for containment

and cleaning up:

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

# 7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

dispersion of dust. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

No data available

No data available.

No data available

No data available

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

No data available

**Skin and body protection:** Impervious protective clothing. Protective boots, if the situation requires.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder
Colour: White - Pale reddish gray
Odour: No data available
Odor threshold: No data available

Melting point/freezing point:

Boiling point/range:

Decomposition temperature:

No data available

No data available

Vapour pressure:

Vapour density:

Vapour density:

Vapour density:

Vapour density:

No data available

Vapour density:

Dynamic Viscosity:

No data available

Log Pow: No data available Evaporation rate(Butyl No data available

Acetate=1):

Flash point: No data available Autoignition temperature: No data available

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: No data available
Upper: No data available

Solubility(ies):

Odour threshold:

[Water] No data available [Other solvents] No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

Incompatible materials: Oxidizing agents

Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

#### 11. TOXICOLOGICAL INFORMATION

RTECS Number: DD1050000

Acute Toxicity: No data available

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

**Germ cell mutagenicity:** mmo-sat 10 nmol/plate (-S9) sce-ham-ovr 50 mg/L

mmo-sat 100 nmol/plate (+S9)

Carcinogenicity: sce-ham-ovr 50 mg/L

IARC: No data available NTP: b (Reasonably anticipated to be OSHA: No data available

carcinogens).

Reproductive toxicity: No data available

Target organ(s):

May cause damage to organs through prolonged or repeated exposure: Kidney

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence / degradability: No data available

Bioaccumulative potential(BCF):

Mobility in soil

 Log Pow:
 1.81

 Soil adsorption (Koc):
 230

 Henry's Law (PaM ³/mol):
 4.8 x 10-6

13. DISPOSAL CONSIDERATIONS

**Disposal of product:** Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

**Disposal of container:** Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

**DOT (US)** Non-hazardous for transportation.

**IATA** Non-hazardous for transportation.

**IMDG** Non-hazardous for transportation.

#### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

#### **US Federal Regulations**

**CERCLA Hazardous substance and Reportable Quantity:** 

SARA 313: Listed SARA 302: Not Listed

State Regulations
State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Listed
Listed
Listed

Other Information

NFPA Rating:HMIS Classification:Health:1Health:1Flammability:0Flammability:0Instability:0Physical:0

**International Inventories** 

**Canada: DSL** On DSL **EC-No:** 243-737-5

#### 16. OTHER INFORMATION

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.