

TCI AMERICA SAFETY DATA SHEET

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

1. IDENTIFICATION

Product name: 1,3-Diphenylguanidine

Product code: D0723

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America

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Emergency telephone number:

Chemical Emergencies:

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

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour

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Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4]

WHMIS 2015:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Toxic to Reproduction [Category 2]

Specific Target Organ Toxicity (Single Exposure) [Category 3]

Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]

Signal word: Warning!

Hazard Statement(s): Harmful if swallowed

Causes skin irritation Causes serious eye irritation

Suspected of damaging fertility or the unborn child

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

May cause respiratory irritation. May cause drowsiness or dizziness.

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

understood. Avoid breathing dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed or concerned: Get medical advice or attention.

Obtain special instructions before use. Do not handle until all safety precautions have been read and

Collect spillage.

[Storage] Store in a well-ventilated place. Keep container tightly closed. 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]

None.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

 CAS RN:
 102-06-7

 Molecular Weight:
 211.27

 Chemical Formula:
 C₁₃H₁₃N₃

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.

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

medical advice/attention.

Ingestion: Get medical advice/attention.Rinse mouth.

Symptoms/effects:

Acute: Dizziness. Redness. Drowsiness.

Delayed: May have effects on the respiratory tract.

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:

Other specific hazards:

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

These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Environmental precautions:

Methods and materials for containment

and cleaning up:

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.

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned. 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.

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, dark and well-ventilated place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

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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.

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
White - Almost white
Odour:
No data available
Odor threshold:
No data available
No data available
No data available

Melting point/freezing point: 147°C (297°F) No data available pH: Boiling point/range: No data available No data available. Vapour pressure: **Decomposition temperature:** No data available Vapour density: No data available No data available **Dynamic Viscosity:** Relative density: No data available

Kinematic 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):

[Water] Very slightly soluble (0.1g/100mL, 25°C)

[Other solvents]

Soluble: Alcohols, Acetone, Chloroform, Hot toluene, Hot benzene

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)

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11. TOXICOLOGICAL INFORMATION

RTECS Number: MF0875000

Acute Toxicity:

orl-rat LD50:323 mg/kg skn-rbt LD50:>794 mg/kg

ipr-rat LD50:75 mg/kg

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 33 ug/plate (-S9)

mmo-sat 33 ug/plate (-S9) mmo-sat 360 ng/plate (+S9) bfa-mus-sat 36 ng/kg

Carcinogenicity: No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

orl-mus TDLo:56 mg/kg (7D male) orl-mus TDLo:196 mg/kg (49D male) orl-mus TDLo:190 mg/kg (1-19D preg)

Target organ(s):

May cause respiratory irritation.

May cause drowsiness or dizziness.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: 48h LC50:10 ppm (Oryzias latipes) 96h LC50:17 mg/L (Oryzias latipes)

Crustacea: 48h EC50:8.1 mg/L (Daphnia magna)

Algae: 72h EC50:7.6 mg/L (Selenastrum capricornutum)

Persistence / degradability: 0 % (by BOD) , 1.7 % (by TOC) , 1.3 % (by UV-VIS) Bioaccumulative potential(BCF): 0.4 - 2.0 (conc. 0.1 ppm) , 1.0 - 20 (conc. 0.01 ppm)

Mobility in soil

Disposal of container:

Log Pow: 1.69

Soil adsorption (Koc): No data available Henry's Law (PaM ³/mol): No data available

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. 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.

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14. TRANSPORT INFORMATION

DOT (US)

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN3077 Environmentally hazardous substance, 9 Miscellaneous hazardous I

solid, n.o.s material

<u>IATA</u>

UN number: Proper Shipping Name:

UN3077 Environmentally hazardous substance,

solid, n.o.s

Class or Division: Packing Group: 9 Miscellaneous hazardous

wildcharicou.

material

<u>IMDG</u>

UN UN3077 Proper Shipping Name:

numb Environmentally hazardous substance,

er: solid, n.o.s

Class or Division: Packing Group:

9 Miscellaneous hazardous III

material

EmS number: F-A, S-F

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:
Not Listed
SARA 302:
Not Listed

State Regulations

State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Not Listed
Not Listed
Not Listed

Other Information

NFPA Rating:HMIS Classification:Health:2Health:2Flammability:1Flammability:1Instability:0Physical:0

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 203-002-1

16. OTHER INFORMATION

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

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.