

SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 1,3-Diphenylguanidine
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Acute toxicity (Oral)

Category 4

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2A

Reproductive toxicity

Category 2

Specific target organ toxicity

Respiratory tract irritation, Narcotic effects

- Single exposure [Category 3]

ENVIRONMENTAL HAZARDS

Acute aquatic hazard

Category 2

Long-term aquatic hazard

Category 2

Label elements

Pictograms or hazard symbols



Signal word

Warning

Hazard statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation Suspected of damaging fertility or the unborn child May cause respiratory irritation May cause drowsiness or dizziness Toxic to aquatic life Toxic to aquatic life with long lasting effects

Precautionary statements

[Prevention]

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

[Response]

mouth.

IF ON SKIN: Wash with plenty of 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. 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	1,3-Diphenylguanidine
Percent:	>98.0%(T)
CAS RN:	102-06-7
Chemical Formula:	C ₁₃ H ₁₃ N ₃

4. 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.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Precautions for firefighters:	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.
Special protective equipment for firefighters:	When extinguishing fire, be sure to wear personal protective equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	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.
Environmental precautions:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
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.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures:	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.
Advice on safe handling:	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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	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
Colour:	White - Almost white
Odour:	Nearly odorless
pH:	No data available
Melting point/freezing point:	147°C
Boiling point/range:	No data available
Flash point:	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	0.17kPa/20°C
Relative density:	No data available
Solubility(ies):	
[Water]	Very slightly soluble (1g/L, 25°C)
[Other solvents]	
Soluble:	Ether, Alcohols, Chloroform
Log Pow:	1.69

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Incompatible materials:	Oxidizing agents, Strong acids
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

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
Germ cell mutagenicity:	mmo-sat 33 ug/plate (-S9) mmo-sat 360 ng/plate (+S9) bfa-mus-sat 36 ng/kg
Carcinogenicity:	
IARC =	No data available
NTP =	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) orl- mus TDLo:76 mg/kg (1-19D preg)
RTECS Number:	MF0875000

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	
Log Pow:	1.69
Soil adsorption (Koc):	No data available
Henry's Law (PaM³/mol):	No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. 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. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	9: Miscellaneous dangerous goods.
UN-No:	3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Packing group:	III
Marine pollutant	Y

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

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