

DPG (D) DIPHENYL GUANIDINE

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Identification on the label/Trade name : Accelerator DPG

Additional identification : 1,3-diphenylguanidine

Identification of the product : CAS#102-06-7; EC#203-002-1

Index Number: 612-149-00-4REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Used as Accelerator.

1.2.2 Uses advised against:

Not available.

2. Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008

Hazard classes/Hazard categories	Hazard statement
Repr. 2	H361f
Acute Tox. 4	H302
Eye Irrit. 2	H319
STOT SE 3	H335
Skin Irrit. 2	H315
Aquatic Chronic 2	H411

For full text of H- phrases: see section 2.2.



67/548/EEC	
Hazards characteristics	R-Phrases
Repr. Cat. 3	R62
Xn	R22
Xi	R36/37/38
N	R51/53

For full text of R- phrases: see section 16.

2.1.2 The most important adverse effects

2.1.2.1 The most important adverse physicochemical effects:

Not applicable.

2.1.2.2 The most important adverse human health effects:

Suspected of damaging fertility.

Harmful if swallowed.

Causes serious eye irritation.

May cause respiratory irritation.

Causes skin irritation.

2.1.2.3 The most important adverse environmental effects:

Toxic to aquatic life with long lasting effects.

2.2 label elements

Hazard Pictograms:



Signal Word(S): Warning

Hazard Statement: H361f Suspected of damaging fertility.

H302 Harmful if swallowed.

H319 Causes serious eve irritation.

H335 May cause respiratory irritation; or H336: May

cause drowsiness or dizziness. H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions

have been read and understood.

P281: Use personal protective equipment as

required.

P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this

product.

P261 Avoid breathing

dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.



P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

2.3 Other hazards

Not available (PBT,vPvB, Substance is an endocrine disruptor etc.)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
1,3-diphenylguanidine	N/A	102-06-7	203-002-1	96%-99%
Polyethylene Monophenyl Ether	N/A	9016-45-9	500-024-6	1-2%
1,3,5-Triphenylbiguanidine (Impurity)	N/A	-	-	0-2%



4. FIRST AID MEASURES

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

4.1.2 In case of skin contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

4.1.3 In case of eyes contact:

Remove contact lenses. Hold eyelids apart. Flush immediately with water for at least 15 minutes. Seek medical attention.

4.1.4 In case of ingestion:

Rinse mouth. Give water to drink. Induce vomiting. Never induce vomiting in unconscious or confused persons. Always seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms can include redness, swelling, pain and tearing.

Inhalation of dust may cause respiratory tract irritation. May cause allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed If skin irritation or rash occurs, get medical advice/attention.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Carbon dioxide, appropriate foam or dry chemical, water fog.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Toxic emissions may result if product is involved in a fire.

5.3 Advice for fire-fighters:

Firefighters must wear fire resistant protective equipment. Wear self contained breathing apparatus and protective gloves.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapor or dust. Avoid skin and eye contact. Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

6.2 Environmental Precautions:

Avoid disposing into drainage/sewer system or directly into the aquatic environment. Keeping away from drains, surface-and ground-water and soil.



6.3 Methods for Containment and Cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Clean up affected area.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information:

Wet clean or vacuum up solids.

Don't use a brush or compressed air for cleaning surfaces or clothing. Clear spills immediately.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Do not breathe dusts/vapor. Handle in well ventilated areas. Eliminate all sources of ignition, and do not generate flames or sparks. Take precautionary measures against static discharges.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipmen before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store closed containers in a cool, dry, well-ventilated area. Store away from strong oxidizing materials. Avoid exposure to direct sunlight. Do not double stack.

7.3 Specific end use(s):

Not applicable.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Occupational exposure limits: Nuisance Dust. OSHA PEL/8Hr-TWA = 15 mg/m3 (Total Dust). OSHA PEL/8-Hr TWA = 05 mg/m3 (Respirable Dust). ACGIH TLV/8-Hr TWA = 10 mg/m3. White Mineral Oil OSHA PEL/8-Hr TWA = 5mg/m3 ACGIH TLV/8-Hr TWA = 5mg/m3.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 EXPOSURE CONTROLS

8.2.1Appropriate engineering controls:

Avoid dust generation. Ensure good ventilation and local exhaustion of the working area

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection Wear appreciate goggles to prevent eye exposure.
Hand protection Wear appreciate gloves to prevent skin exposure.
Body protection Wear suitable protective clothing to prevent skin

exposure.



Respiratory protection Appropriate respiratory protection shall be worn

when applied engineering controls are not adequate to protect against inhalation exposure. Firefighting; use a Positive Pressure Demand Full

Face Self Contained Breathing Apparatus.

Thermal hazards Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:

Avoid discharge into the environment. This material and its container must be

disposed of as hazardous waste.

According to local regulations, Federal and official regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Powder; granules **Colour:** White to off-white

Odour: Aromatic
Odour threshold: Not available
pH: Not Applicable.
Melting point/range (°C): 144 - 150 °c

Boiling point/range (°C): > 170 °C (decomposition temperature)

Flash point (°C): > 150 °C (closed cup)
Evaporation rate: <0.3% by heat loss
Flammability (solid, gas); Combustible
Ignition temperature (°C): 650 °C

Upper/lower flammability/explosive Not determined

limits

Vapour pressure (20°C): Negligible at room temperatures

Vapour density: Not applicable

Relative Density (25°C): 1.15

Bulk density (kg/m3): 1180 kg/m3

Water solubility (g/l): Insoluble; <0.1g/100 ml @ 21°C

n-Octanol/Water (log Po/w):
 Auto-ignition temperature:
 Decomposition temperature:
 Viscosity, dynamic (mPas):
 Explosive properties:
 Oxidising properties:
 Log Pow: 1.69
 Not available
 Not determined
 Not applicable
 Not applicable

9.2. Other information:

Fat solubility(solvent- oil to be specified) etc: Soluble in Acetone Ethanol Acids

Chloroform Benzene Toluene

Surface tension:Not availableDissociation constant in water(pKa):Not availableOxidation-reduction Potential:Not available



10. STABILITY AND REACTIVITY

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:

Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation.

10.3 Possibility of hazardous reactions:

Under normal conditions, not hazardous reactions will occur.

10.4 Conditions to avoid:

Keep away from heat, sparks and flame. Temperatures above 160°C. Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.

10.5 Incompatible materials:

Contact with oxidizing agents.

10.6 Hazardous decomposition products:

Carbon monoxide. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution Non-human toxikological data: Not available

Method: Not available Dosis: Not available

Routes of administration: Not available

Results: Not available Absorption: Not available Distribution: Not available Metabolism: Not available Excretion: Not available

11.2 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat): 350 -507mg/kg LD50(Dermal Rabbit): >2000 mg/kg LD50(Inhalation, Rat): Not available **Skin corrosion/Irritation:** Irritating to skin.

Serious eye damage/irritation: Irritating to eyes.

Respiratory or skin sensitization: May cause respiratory irritation

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified reproductive toxicity: Not classified STOT- single exposure: Not classified STOT-repeated exposure: Not classified Aspiration hazard: Not classified



12. ECOLOGICAL INFORMATION

Toxicity:

Acute toxicit	ty	Time	Species	Method	Evaluation	Evaluation
LC50	9.6 mg/l	96h	Bluegill Fish	OECD 203	N/A	N/A
LC50	17.0 mg/l	48h	Daphnia Magna	OECD 202	N/A	N/A
EC50	1.7 mg/l	96h	Algae	OECD 201	N/A	N/A

Persistence and degradability: > 90% in 2 weeks. 1.69 log P.

Bioaccumulative potential: Bio Concentration Factor (BCF): 33.78 (calculated,

EPIWIN)

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: Not applicable.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste. According to local regulations, Federal and official regulations.

13.2 Product / Packaging disposal:

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	UN3077	UN3077	UN3077
UN Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (1,3- diphenylguanidine)	Environmentally hazardous substance, solid, n.o.s. (1,3- diphenylguanidine)	Environmentally hazardous substance, solid, n.o.s. (1,3- diphenylguanidine)
Transport hazard Class:	9	9	9
Packaging group:	III	III	III
Environmental hazards:	Environmentally hazardoussubstances	Environmentally hazardoussubstances	Environmentally hazardoussubstances
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	IBC 08	IBC 08	IBC 08



15. REGULATION INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant information regarding authorization: Not applicable. **Relevant information regarding restriction:** Not applicable.

Other EU regulations: Employment restrictions concerning young person must be

observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

16 OTHER INFORMATION

16.2 Relevant R- phrases (number and full text):

R62 Risk of impaired fertility.

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R51-53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.3 Training instructions:

Not applicable.

16.4 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.