According to Regulation (EU) No. 1907/2006

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I Identification of the substance and of the company/undertaking

1.1 Product identifier:

Printing date:15/01/2021

Identification on the label/Trade name: DPG

Additional identification: 1,3-diphenylguanidine

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

Index Number: 612-149-00-4

REACH registration No.: 01-2119519144-47-xxxx

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

1.2.1 Identified uses:

Manufacturing of substance (industrial application)

Production of general rubber goods (GRG)

Production of tyres (including manufacturing, retreating, service life and end of life)

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited

Supplier(Manufacturer): Shandong Sunsine Chemical Co., Ltd.

Address: Economy & Technical Development Zone, Shanxian City, Shandong Province,

China.

 Contact person(E-mail):
 sale@sunsine.com

 Telephone:
 +86 530 4686360

 Fax:
 +86 530 4684121

1.4 Emergency telephone Number:

+353 41 980 6916

Available outside office hours? YES NO X

2 Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

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

REGULATION (EC) No 1272/2008				
Hazard classes/Hazard categories	Hazard codes			
Acute Tox. 4	H302			
Skin Irrit. 2	H315			
Eye Irrit. 2	H319			
STOT SE 3	H335			

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

2.2 label elements

Hazard Pictograms:



Signal Word(S): Warning

Hazard Statement: H302: Harmful if swallowed.

H315: Causes skin irritation. H319: Cause serious eye irritation. H335: May cause respiratory irritation.

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Precautionary Statement: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

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

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

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

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Not available.

3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
1,3-diphenylguanidine	01-2119519144-4 7-xxxx	102-06-7	203-002-1	≥98
Distillates(petroleum),hydrotreate d heavy naphthenic	N/A	64742-52-5	265-155-0	≤1.5%
Unknown impurity	N/A	N/A	N/A	≤0.5%

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:

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging fertility or the unborn child.

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

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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 firefighters:

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 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.

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 equipment 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: Not available.

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

8.1.3 DNEL/DMEL and PNEC-Values:

Workers - Hazard via inhalation route-Systemic effects-Long term exposure-DNEL

(Derived No Effect Level): 1.2 mg/m³

Workers - Hazard via dermal route- Systemic effects- Long term exposure- DNEL

(Derived No Effect Level): 1.7 mg/kg bw/day

General Population - Hazard via inhalation route- Systemic effects- Long term exposure- DNEL (Derived No Effect

Level): 0.3 mg/m³

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General Population - Hazard via dermal route- Systemic effects- Long term exposure- DNEL (Derived No Effect

Level): 0.85mg/kg bw/day

General Population - Hazard via oral route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level):

0.085 mg/kg bw/day

Hazard for aquatic organisms- PNEC aqua (freshwater): 30 μg/L Hazard for aquatic organisms- PNEC aqua (marine water): 3 μg/L

Hazard for aquatic organisms- PNEC aqua (intermittent releases): 14 µg/L

Hazard for aquatic organisms- PNEC STP: 1.47 mg/L

Hazard for aquatic organisms- PNEC sediment (freshwater): 2.51 mg/kg sediment dw

Hazard for aquatic organisms- PNEC sediment (marine water): 0.251 mg/kg sediment dw

Hazard for terrestrial organisms- PNEC soil: 0.404 mg/kg soil dw

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.

According to local regulations, Federal and official regulations.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Granule

Colour: White or grayish white

Odour: Not available Odour threshold: Not available pH: Not available Melting point/range (°C): 149 °C 250 °C Boiling point/range (°C): Flash point (°C): Not available Evaporation rate: Not applicable Flammability (solid, gas); Not flammable Ignition temperature (°C): Not available Not available. Upper/lower flammability/explosive limits: 4×10-9hPa Vapour pressure (25°C): Vapour density: Not applicable

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Relative Density: 0.384

 $\begin{array}{ll} \text{Bulk density (kg/m}^3): & \text{Not available} \\ \text{Water solubility (g/l):} & \text{Not available} \end{array}$

n-Octanol/Water (log Po/w) : Log Kow (Pow): 2.42 at 21.1 °C

Auto-ignition temperature:

Decomposition temperature:

Viscosity, dynamic (mPa s):

Explosive properties:

Oxidising properties:

Mot available

Not determined

Not determined

Oxidising properties:

Not applicable

Could be composed by the composed by

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc: Not available

Surface tension: 58.8 mN/m at 20°C and 300 mg/L

Dissociation constant in water(pKa): pKa at 20°C: 10.13

Oxidation-reduction Potential: Not available

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10 Stability and reactivity

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

Incompatible materials. Keep away from heat, sparks and flame. Temperatures above 160°C.

10.5 Incompatible materials:

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

11.2 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat): Not available
LD50(Dermal Rabbit): Not available
LD50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

reproductive toxicity: Suspected of damaging fertility or the unborn child.

STOT- single exposure: May cause respiratory irritation.

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STOT-repeated exposure: Not classified Aspiration hazard: Not classified

12 Ecological information

Toxicity:

Acute t	toxicity	Time	Species	Method	Evaluation	Remarks
LC50	4.2mg/l	96h	Fish	OECD 203	N/A	N/A
LC50	17mg/l	48h	Daphnia	OECD 202	N/A	N/A
EC50	1.7mg/l	96h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Inherently biodegradable.

Bioaccumulative potential: DPG has a low potential for bioaccumulation.

Mobility in soil: DPG (1,3-diphenylguanidine) is expected to have very slight mobility based upon an

estimated Koc of 5,900.

Results of PBT&vPvB assessment: DPG is not PBT nor vPvB.

Other adverse effects: Toxic to aquatic life with long lasting effects.

13 Disposal considerations

13.1 Waste treatment methods

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	Not regulated	Not regulated	Not regulated
UN Proper shipping name:	Not regulated	regulated Not regulated No	
Transport hazard Class:	Not regulated	Not regulated	Not regulated
Packaging group:	Not regulated	Not regulated	Not regulated
Environmental hazards:	Not regulated	Not regulated	Not regulated
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	Not regulated	Not regulated	Not regulated

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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

Chemical Safety Assessment has been carried out? YES NO X

16 Other information

16.1 Indication of changes Version 1.2 Amended by EU No 2015/830

16.2 Training instructions:

Not applicable.

16.3 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.

16.4 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.