

## SAFETY DATA SHEET

according to Regulation No. 1907/2006 (REACH) and  
Commission Regulation (EU) 2020/878

### 1,3-Diphenylguanidine

Version: 1.1  
Issue date: 03.04.2003  
Revision date: 01.07.2021

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Chemical name/ trade name: **DENAX DPG® POWDER / DENAX DPG® OIL POWDER / DENAX DPG® GRANULE / DENAX DPG® OIL GRANULE**

INCI name: 1,3-Diphenylguanidine

Substance / mixture Substance

CAS No: 102-06-7

Registration number: 01-2119519144-47-0001

Producer: **Lučební závody Draslovka a.s. Kolín**

Address: **Kolín, 28002, Havlíčkova 605**

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended use: Use in the rubber industry:  
Formulation or re-packing - Manufacture of Masterbatches - continuous process, internal mixer  
  
Formulation or re-packaging - Formulation and re-packaging  
Use at industrial sites - Manufacture of General Rubber Goods (dust, granules, oiled granules)  
  
Use at industrial sites - Manufacture of Tyres - Production (dust, granules, oiled granules) and Retreading  
Service life (consumers) - Consumer use of tyres  
Service life (professional worker) - Garage owner - tyres change; End of Life Tyre ELT pre-processing storage  
Formulation or re-packing - End of Life tyre Coarse shredding; Grinding (ambient); Grinding cryogenic; Pyrolysis; Energy recovery cement kiln; Energy recovery other; Electric arc furnace; Devulcanization -reclaim  
Service life (professional worker) – ELT articles - installation of shock absorbing tiles; ELT articles - installation of synthetic turf fields; GRG articles conveyor belt  
Service life (consumers) - ELT articles - shock absorbing tiles; ELT articles - synthetic turf fields; GRG articles

Uses advised against: Use is limited to the above

##### 1.3 Details of the supplier of the safety data sheet

Supplier of SDS: Lučební závody Draslovka a.s. Kolín  
Address: Havlíčkova 605, 280 02 Kolín, Czech Republic  
Identification No.: 46 35 73 51  
Tel: +420 321 335 281  
www: www.draslovka.cz  
Responsible person for this SDS: sds@draslovka.cz

##### 1.4 Emergency telephone number

National Poison Information Service  
111  
+44-8454647  
Toxikologické informační středisko, Na Bojišti 1, Praha  
(continuously) +420-224919293  
+420-224915402  
Information for Health Risks - acute poisoning people and animals  
**The toxicological center is different according to the country of use.**

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture

###### 2.1.1 Classification according to the EC Regulation No. 1272/2008 (CLP) + based on test / CSR results:

Acute Toxicity, category 3, H301 Toxic if swallowed.  
Skin irritation, category 2, H315 Causes skin irritation.  
Serious eye damage, category 1, H318 Causes serious eye damage.  
Specific target organ toxicity — single exposure, category 3, H335 May cause respiratory irritation.

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Reproductive toxicity, category 2, H361f Suspected of damaging fertility.  
Chronic (long term) aquatic hazard, category 2, H411 Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

Name: DENAX DPG® POWDER / DENAX DPG® OIL POWDER / DENAX  
DPG® GRANULE / DENAX DPG® OIL GRANULE  
CAS: 1,3-Diphenylguanidine  
102-06-7

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

Hazard pictogram(s):



Signal word(s):

DANGER

Hazard statement(s):

H301 Toxic if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H361f Suspected of damaging fertility.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective nitrile gloves, protective clothing and eye protection.  
P301/310 IF SWALLOWED: Immediately call a doctor.  
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental information:

None

#### 2.3 Other hazards

Based on the results of the assessment, this substance is not PBT or vPvB

This substance does not contain a substance considered to be SVHC.

This substance does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

The amount and type of oil in DENAX DPG® OIL POWDER and DENAX DPG® OIL GRANULE have no effect on the classification and the hazards of the product.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Name of the component	Content (weight %)	CAS EINECS Index N° Reg. Number	Specific concentr. limits, Multiplication factors; ATE	Harmonized classification / classification according to Regulation (EC) No 1278/2008 (CLP)
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1,3-difenylguanidin	min. 96,5	102-06-7 203-002-1 612-149-00-4 01-2119519144-47-0001	-	Repr. 2 Acute Tox. 4 * Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Aquatic Chronic 2	H361f *** H302 H319 H335 H315 H411
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For full text of H-statements see SECTION 16.

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

General advice:	In case of physical discomfort or health troubles, notify a doctor and provide him with information form this SDS.
Inhalation:	Stop exposition immediately, move the affected person to fresh air. Provide the affected person against cold. Ensure medical treatment, especially in case of outlasting coughing, shortness of breath or other symptoms.
Skin contact:	Remove contaminated clothing. Wash the affected area with large amount of (preferably) lukewarm water. In case of undamaged skin use soap, suds or shampoo. Ensure medical treatment, especially when skin irritation continues.
Eye contact:	Immediately start rinsing eyes with running water, open eyelids (use force if necessary); if the victim has contact lenses, remove them immediately. Rinse for at least 10 minutes. Ensure medical treatment, if possible ophthalmologist.
Ingestion:	DO NOT INDUCE VOMITING. Ensure medical treatment.
Protection of first aiders:	When providing first aid, it is essential to ensure both the rescue and the rescued safety.

##### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Cough, shortness of breath;  
Skin contact: Irritation, itching, redness;  
Eye contact: Irritation and redness;  
Ingestion: Corrosion.

##### 4.3 Indication of any immediate medical attention and special treatment needed

Inform a doctor about first aid measures.

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

Suitable extinguishing media:	Fragmented stream of water, extinguishing foam. Adapt to surrounding materials.
Unsuitable extinguishing media:	Powder, CO <sub>2</sub>

##### 5.2 Special hazards arising from the substance or mixture

Dangerous products of decomposition - carbon monoxide, oxides of nitrogen  
From the standpoint of fire safety, whirled DPG dust ignites at the temperature of 645 °C. The lower explosion limit is at 39 g.m<sup>-3</sup> at the initiation energy of 9 kJ.

##### 5.3 Advice for firefighters

Use self-contained breathing apparatus (EN 137).

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Use self-contained breathing apparatus (EN 137). Mark out the contaminated area and prevent to enter unauthorized persons. Observe the instructions in Sections 7 and 8.

##### 6.2 Environmental precautions

Prevent accidental release into the drains, surface and groundwater. If is water contaminated inform the competent local authorities.

##### 6.3 Methods and material for containment and cleaning up

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Small leak: Remove mechanically (collect into a container). Hand over to authorised person for disposal. Decontamination: water;  
Big leak: Remove mechanically. Hand over to authorised person for disposal.

## 6.4 Reference to other sections

See section 7, 8 a 13.

## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Avoid contact with eyes and skin. Avoid dust and aerosol formation. Use personal protective equipment in accordance with Section 8. Ensure sufficient ventilation. Observe valid health and safety regulations.

## 7.2 Conditions for safe storage, including any incompatibilities

Safe storage requirements: Store in a dry, properly ventilated, closed area while contained in original packaging placed on wooden or plastic pallets. Keep away from foodstuffs, oxidants, strong acids. When stored on shelves, identification of the substance is necessary. Make sure the label is visible. Requirements for joint storage: Incompatible products – oxidants, strong acids.

## 7.3 Specific end use(s)

See Exposure Scenario

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Substances with Community Exposure Limits:

The values OEL and STEL are not stated according to 2017/164.

DNEL:

1,3-diphenylguanidine (CAS: 102-06-7)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
<b>Workers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	1.2
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	1.7
<b>Consumers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	0.3
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	0.85
Oral	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	0.085

PNEC:

1,3-diphenylguanidine (CAS: 102-06-7)

Component of the environment		PNEC	Unit	Value
Water environment	Freshwater	PNEC <sub>water, fresh.</sub>	mg/L	0.03
	Freshwater sediment	PNEC <sub>sed., fresh.</sub>	mg/kg <sub>sediment dw</sub>	2.51
	Seawater	PNEC <sub>water, mar.</sub>	mg/L	0.003
	Marine sediment	PNEC <sub>sed., mar.</sub>	mg/kg <sub>sediment dw</sub>	0.251
Microbiological activity	Wastewater treatment plant	PNEC <sub>sew. treat.</sub>	mg/L	1.47
Terrestrial environment / organisms	Soil	PNEC <sub>soil</sub>	mg/kg <sub>soil dw</sub>	0.404

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### 8.2 Exposure controls

Technical measures:

Technical measures and the use of appropriate working procedures take precedence over the use of PPE.

#### Individual protection measures - for workers in production plant

Protective equipment must be selected depending on the concentration and amount of risk factors in the relevant building / activity. The PPE listed here provides protection in normal operation. If there is a risk of HCN, use PPE listed in sections 5.3 and 6.1. In normal operation and in crisis situations, use the so-called "buddy system" - a safety system for pairs. Provide staff training on the use of PPE to protect the respiratory tract, hands and eyes and face.

Respiratory protection:

Dustproof respirator with FFP1 dust filter or combined filter e.g., A2B2E2K2P3D (EN 136, EN 14 387 + A1) should be used in case of dust.

Hand protection:

Gloves (eg KCL 732); (tested according to EN ISO 374-1); thickness: min 0.4 mm; material: nitrile; penetration time:> 240 min.

Basic training in combination with special training (eg the procedure for removing and disposing of gloves) for operations where dermal protection is required.

Eye / face protection:

Goggles or a shield. (EN 166)

Skin protection:

Protective suit (EN ISO 13688), protective shoes (EN ISO 20346).

Environmental exposure controls:

Avoid release of the product / substance to the environment by all available means. Section 6.2.

#### Individual protection measures - for other users

Protective equipment must be selected depending on the concentration and amount of risk factors in the relevant facility / activity.

See Exposure Scenarios

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:

Solid (powder or fine granules)

Colour:

white to greyish

Odour:

none

Odour threshold:

not applicable

pH :

N/A

Melting point / freezing point (°C):

149

Boiling point or initial boiling point and boiling range (°C):

250

Flash point (°C):

Data not available

Evaporation rate:

Data not available

Flammability (gases, liquids and solids):

Non flammable

Lower and upper explosion limit:

upper: Not stated; lower: 39 g/m<sup>3</sup> (whirled dust)

Vapour pressure (20 °C):

0 Pa

Vapour pressure (50 °C):

Data not available

Relative vapour density:

N/A

Density and/or relative density (g/cm<sup>3</sup>, 20 °C):

0.348 (water = 1)

°C):

Solubility (20 °C):

325 mg/l at 20 °C (solubility in water)

Partition coefficient n-octanol/water (log value):

log Kow= 2.42 at pH 11 and 21.1 °C

Auto-ignition temperature:

Data not available

Decomposition temperature:

Data not available

Kinematic viscosity:

N/A

Refractive index (20 °C):

Data not available

Oxidising properties:

None

Explosive properties:

Lower explosion limit: 39 g / m<sup>3</sup> (dust).

Particle characteristics:

Data not available

### 9.2 Other information

VOC (%):

N.A.

Additional information:

None

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### 9.2.1 Information with regard to physical hazard classes

Corrosive to metals No data available.

### 9.2.2 Other safety characteristics:

Corrosiveness: Skin irritation, category 2, H315 Causes skin irritation.  
Serious eye damage, category 1, H318 Causes serious eye damage.  
Gas group: Is not relevant (solid)

## SECTION 10: Stability and reactivity

- 10.1 Reactivity** Data not available
- 10.2 Chemical stability** The product is stable under the conditions defined for handling, application, and transport.
- 10.3 Possibility of hazardous reactions** Data not available
- 10.4 Conditions to avoid** Store protected from moisture and heat.
- 10.5 Incompatible materials** Oxidants, strong acids.
- 10.6 Hazardous decomposition products** Nitrogen oxides, carbon monoxide

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Individual components

#### 1,3-diphenylguanidine (CAS: 102-06-7)

Acute toxicity:

Oral LD50 of 107-111 mg/kg bw (rat), dermal LD0 is >= 2,000 mg/kg bw (rabbit).

Serious eye damage / irritation:

The Draize test was performed on rabbits to study the irritant power of 1,3 -diphenylguanidine (DPG). New Zealand White rabbits were exposed to 100 mg of DPG, and were observed 1, 24, 48, 72, 120 and 168 hrs after exposition. Maximal Irritation score was 56.6 at 24 hours (over 110). The irritation was not fully reversible even after 7 days.  
Based on these results 1,3-diphenylguanidine (DPG) is considered as severely irritating to the eyes (rabbit).

Skin corrosion / irritation:

Does not damage the skin. Causes skin irritation.  
The acute dermal irritation of 1,3-diphenylguanidine (DPG) was evaluated in rabbits according to the Draize test. 0.5 g of DPG was applied undiluted to intact and to abraded skin of 6 New-Zealand White albino rabbits and held in contact for 24 hours by means of an occlusive dressing. Mean scores over 24, 48 and 72 hours for the 6 animal were 0 for erythema and 0 for oedema for both intact and abraded skin.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

STOT - single exposure:

Oral exposure- the NOAEL lies at 250 ppm for rats (ca. 17 mg/kg b.w. and day) and 500 ppm for mice (ca. 75 mg/kg b.w. and day).

STOT - repeated exposure:

Based on available data, the classification criteria are not met.

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Carcinogenicity:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

The substance is classified according to Regulation (EC) No 1272/2008.  
Suspected of damaging fertility.

Aspiration hazard:

Based on available data, the classification criteria are not met.

#### 11.2 Information on other hazards Endocrine disrupting properties

This substance does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

#### Other information:

No data available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### 1,3-diphenylguanidine (CAS: 102-06-7)

Toxicity	Result
Acute toxicity to fish	LC50 ( <i>Pimephales promelas</i> , 96 h) = 4.2 mg/l
Acute toxicity to aquatic algae	EC50 ( <i>Scenedesmus subspicatus</i> , 72 h) = 7.5 mg/l; EC50 ( <i>Selenastrum capricornutum</i> , 96 h) = 1.7 mg/l
Acute toxicity to Daphnia	24 h EC50 = 73.6 mg/l; 48 h EC50 = 17 mg/l ( <i>Daphnia magna</i> )
Acute toxicity to bacteria	An EC50 - 3 hours of 147 mg/l was estimated (79 -208 mg/l).

#### 12.2 Persistence and degradability

DPG (1,3-diphenylguanidine) is not readily biodegradable (0% after 20 days in the OECD 301 D assay, using non-adapted inoculum).

#### 12.3 Bioaccumulative potential

DPG is characterised by a **low potential of bioaccumulation in aquatic organisms** based on log Kow = 2.42 and BCF <20.

#### 12.4 Mobility in soil

Do not expect significant mobility in the soil.

#### 12.5 Results of PBT and vPvB assessment

Based on the results of the assessment, this substance is not PBT or vPvB.

#### 12.6 Endocrine disrupting properties

This substance does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

#### 12.7 Other adverse effects

Not known

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Catalogue No. of mixture waste:  
Waste codes / waste designations  
according to LoW:

160305\* - organic wastes containing dangerous substances  
150110\* - packaging contaminated with dangerous substances

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Recommended procedure for mixture waste disposal: Dispose of waste and properly emptied containers in accordance with applicable waste legislation and other legal regulations issued to protect the environment. Then hand over to the authorized person to dispose of hazardous waste.




Recommended procedure for packaging disposal: Contaminated packing hand over for disposal to an authorized waste disposal person. If surface or ground water is contaminated, it is necessary to inform the local fire brigade unit and the environmental authorities of the state administration immediately.

Physical / chemical properties that may affect waste treatment method: See Section 9

Sewage disposal-relevant information: Avoid release into sewerage. Dispose of contaminated water with a sorbent and hand over for disposal to an authorized waste disposal person. If surface or ground water is contaminated, inform the local fire brigade unit and the environmental authorities of the state administration immediately.

Other disposal recommendations: Dispose in accordance with applicable legislation.

#### SECTION 14: Transport information

	Type of transport	Land transport ADR/RID	Sea transport IMDG	Air Transport ICAO / IATA
14.1	UN number or ID number	2811	2811	2811
14.2	UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S (1,3-diphenylguanidine)	TOXIC SOLID, ORGANIC, N.O.S (1,3-diphenylguanidine)	TOXIC SOLID, ORGANIC, N.O.S (1,3-diphenylguanidine)
14.3	Transport hazard class(es)	6.1	6.1	6.1
	Classification code	60	-	-
	EmS	-	F-A, S-A	-
	Packaging instructions	P002 / IBC08 / LP02 / R001	P002 / IBC08	(passanger/cargo) 670 / 677
	Labels	6.1	6.1	6.1
				
14.4	Packing group	III	III	III

14.5 Environmental hazards ADR, RID, ICAO / IATA: Yes, substance hazardous to environment | IMDG Code: Yes, marine pollutant.

IMDG: Marine Pollutant  
1272/2008 CLP: Chronic (long term) aquatic hazard, category 2, H411

14.6 Special precautions for user No data available.

14.7 Maritime transport in bulk according to IMO instruments Not specified.

#### Other information

Type of transport	Land transport ADR/RID	Sea transport IMDG	Air Transport ICAO / IATA
Limited quantities:	5 kg	5 kg	Y645
Excepted quantities:	E1	E1	E1



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Transport category:	2	-	-
Tunnel restriction code:	(E)	-	-
Segregation group:	-	-	-

### SECTION 15: Regulatory information

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

all as amended and including implementing regulations:

Directive (EC) 2017/164 establishing a fourth list of indicative occupational exposure limit values

Regulation (EC) No. 1272/2008 (CLP) on classification, labelling and packaging of substances and mixtures,...

Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),...

Applicable national regulations.

#### 15.2 Chemical safety assessment

See: Chemical Safety Report

### SECTION 16: Other information

#### Complete text of all classifications and hazard classes referred to in SECTION 3

##### Hazard class:

Acute Tox. 4 - Acute Toxicity, category 4  
Aquatic Chronic 2 - Chronic (long term) aquatic hazard, category 2  
Eye Irrit. 2 - Eye irritation, category 2  
Repr. 2 - Reproductive toxicity, category 2  
Skin Irrit. 2 - Skin irritation, category 2  
STOT SE 3 - Specific target organ toxicity — single exposure, category 3

##### H-statements:

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H361f Suspected of damaging fertility.  
H411 Toxic to aquatic life with long lasting effects.

##### Abbreviations:

ADR	Accord Dangereuses Route
ATE	Acute toxicity estimation
CAS	Chemical Abstracts Service
DNEL	Derived no-effect level
EC50	Effect concentration for 50%
EINECS	European Inventory of Existing Commercial Chemical Substances
IATA	International Air Transport Association
IC50	Inhibition concentration for 50%
ICAO	International Civil Aviation Organization
IL 50	Inhibition load for 50%
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50%
LD50	Lethal dose for 50%
LOAEC	Lowest observable adverse effect concentration
LOAEL	Lowest observable adverse effect level
NEL	No effect level
NOAEC	No observable adverse effect concentration
NOAEL	No observable adverse effect level
NOEC	No observable effect concentration
NOEL	No observable effect level
OEL	Occupational Exposure Limit (workplace exposure limit - 8 hours / shift)
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no-effect concentration
RID	Regulations for the International Carriage of Dangerous Goods by Rail
SCL	Specific concentration limits
STEL	Short Term Exposure Limit (short exposure - corresponds to approx. 15 min.)
TT	Toxic threshold
VOC	Volatile organic substances

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vPvB Very persistent and very bioaccumulative

**Changes in revisions are marked by underlining and highlighting.**

#### Instructions for training:

SDS and training for manipulation with dangerous and flammable substances

#### Other information:

Disclaimer: The information stated in this SDS is given in good faith and considered correct but it is not presented as completely exhaustive and can be used as a lead only. Information in this document is based on the contemporary state of our knowledge and concern the product with regard to relevant safety regulations. It does not represent a guarantee of the product qualities. Lučební závody Draslovka a.s. Kolín does not bear responsibility for any damage resulting from handling or coming into contact with the above mentioned product.

The user is responsible for determining the suitability of the product for specific purposes and adapting security measures if such application is contrary to the manufacturer's recommendations.

This software-created revision No. 1.1 replaces the non-software-created revision of Safety data sheet of 29.08.2019.

Other optional customer indications may appear on the labels: CA15011910; PHENAX; 408-F; AAX901A; 160146; PG00312AR; CA15010310; CA15011912