

# Safety (MSDS) data for diphenylguanidine

Hazard: harmful



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## General

Synonyms: 1,3-diphenylguanidine, N,N'-diphenylguanidine, DPG, accelerator d, denax, denax dpg, dpg accelerator, melaniline, sym-diphenylguanidine, DPG accelerator, vulkacit d/g, vulkazit, vulcacid d, USAF B-19, USAF EK-1270

Molecular formula:  $C_{13}H_{13}N_3$

CAS No: 102-06-7

EINECS: 203-002-1

## Physical data

Appearance: white or cream powder with a bitter taste and slight odour

Melting point: 150 C

Boiling point: >170 C (decomposes)

Vapour density:

Vapour pressure: negligible at room temperature

Specific gravity: 1.15

Flash point: 170 C

Explosion limits:

Autoignition temperature:

## Stability

Stable. Combustible. Incompatible with strong oxidising agents. Moisture sensitive.

## Toxicology

Toxic by ingestion. Harmful by inhalation and in contact with skin. Severe eye irritant. Skin and respiratory irritant. Laboratory tests indicate this material may be a teratogen (Ames test). May act as a sensitizer.

### Toxicity data

(The meaning of any abbreviations which appear in this section is given [here.](#))

ORL-MUS LD50 290 mg kg<sup>-1</sup>

ORL-RAT LD50 507 mg kg<sup>-1</sup>

IPR-MUS LD50 25 mg kg<sup>-1</sup>

IPR-RAT LD50 75 mg kg<sup>-1</sup>

ORL-MAM LDLO 250 mg kg<sup>-1</sup>

### **Risk phrases**

(The meaning of any risk phrases which appear in this section is given [here.](#))

R20 R21 R22 R36.

## **Transport information**

(The meaning of any UN hazard codes which appear in this section is given [here.](#))

UN No 8027. Hazard class 9.

## **Personal protection**

Safety glasses, gloves, adequate ventilation.

### **Safety phrases**

(The meaning of any safety phrases which appear in this section is given [here.](#))

S26 S28 S36 S37 S39 S45.

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