Safety (MSDS) data for diphenylguanidine

Hazard: harmful

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


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\(^{-1}\)
ORL-RAT LD50 507 mg kg\(^{-1}\)
IPR-MUS LD50 25 mg kg\(^{-1}\)
IPR-RAT LD50 75 mg kg\(^{-1}\)
ORL-MAM LDLO 250 mg kg\(^{-1}\)

**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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