



GENTIAN VIOLET CAS No 548-62-9

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 Product identifiers

Product name : Gentian Violet

CAS-No. : 548-62-9

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd

7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002

INDIA

Telephone : +91 11 49404040

Email : care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 Carcinogenicity (Category 2), H351 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

GH508 GH505 GH507 GH509

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard

Statements

none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Basic Violet 3

Methyl Violet 10B

Hexamethylpararosaniline chloride

Gentian Violet Crystal Violet

Formula : C₂₅H₃₀ClN₃

Molecular weight : 407.98 g/mol
CAS-No. : 548-62-9
EC-No. : 208-953-6
Index-No. : 612-204-00-2

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

C.I. Basic violet 3 Included in the Candidate List of Substances of Very High Concern (SVHC) according to Re gulation (EC) No. 190 7/2006 (REACH)

CAS-No. 548-62-9 Acute Tox. 4; Eye Dam. 1; <= 100 %

EC-No. 208-953-6 Carc. 2; Aquatic Acute 1; Index-No. 612-204-00-2 Aquatic Chronic 1; H302,

H318, H351, H400, H410 M-Factor - Aquatic Acute: 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive.

Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: powder

Colour: dark green

b) Odourc) Odour Thresholddata availableNo data available

d) pH 2.5 - 3.5 at 10 g/l at 20 °C

e) Melting point/freezing Melting point/range: 205 °C - dec.

point

f) Initial boiling point and No data available boiling range

g) Flash point No data available

h) Evaporation rate No data availablei) Flammability (solid, gas) No data available

j) Upper/lower No data available flammability or explosive limits

k) Vapour pressure No data available
 l) Vapour density No data available
 m) Relative density 1.190 g/cm3 at 20 °C

n) Water solubility soluble

 o) Partition coefficient: noctanol/water
 log Pow: 1.172 at 25 °C p) Auto-ignition > 190 °C

temperature

q) Decomposition No data available

temperature

r) Viscosity No data available
 s) Explosive properties No data available
 t) Oxidizing properties No data available

9.2 Other safety information

Bulk density 220 - 400 kg/m3 Surface tension 44.2 mN/m

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Mouse - 96 mg/kg(C.I. Basic violet 3)

LD50 Oral - Rabbit - 150 mg/kg(C.I. Basic violet 3)

LD50 Intraperitoneal - Rat - 8.9 mg/kg(C.I. Basic violet 3) LD50

Intraperitoneal - Mouse - 5.1 mg/kg(C.I. Basic violet 3) LD50

Intraperitoneal - Rabbit - 5 mg/kg(C.I. Basic violet 3) LD50

Intraduodenal - Rabbit - 160 mg/kg(C.I. Basic violet 3)

Skin corrosion/irritation

No data available(C.I. Basic violet 3)

Serious eye damage/eye irritation

Severe eye irritation(C.I. Basic violet 3)

Respiratory or skin sensitisation

No data available(C.I. Basic violet 3)

Germ cell mutagenicity

Human(C.I. Basic violet 3)

HeLa cell

DNA inhibition

Human(C.I. Basic violet 3)

HeLa cell

Cytogenetic analysis

Human(C.I. Basic violet 3)

lymphocyte

Cytogenetic analysis

Rat(C.I. Basic violet 3)

Liver

DNA inhibition

Mouse(C.I. Basic violet 3)

lymphocyte

DNA damage

Hamster(C.I. Basic violet 3)

ovary

Cytogenetic analysis

Mammal(C.I. Basic violet 3)

lymphocyte

DNA damage

Mammal(C.I. Basic violet 3)

Other cell types

Cytogenetic analysis

Non-mammalian(C.I. Basic violet 3)

Other cell types

Cytogenetic analysis

Result: Equivocal evidence.

Histidine reversion (Ames)

Carcinogenicity

Limited evidence of a carcinogenic effect.(C.I. Basic violet 3)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available (C.I. Basic violet 3)

Specific target organ toxicity - single exposure

No data available(C.I. Basic violet 3)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(C.I. Basic violet 3)

Additional Information

RTECS: BO9000000

prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting(C.I. Basic violet 3)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and

other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0.35 mg/l - 48 h(C.I. Basic violet 3)

(OECD Test Guideline 202)

Toxicity to algae EC50 - Pseudokirchneriella subcapitata - 0.42 mg/l - 72 h(C.I. Basic violet 3)

(OECD Test Guideline 201)

Persistence and degradability

Biodegradability Result: 10 % - Not readily biodegradable.

Ratio BOD/ThBOD 0.12 %(C.I. Basic violet 3)

Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(C.I. Basic violet 3)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

IMDG: 3077 IATA: 3077 ADR/RID: 3077

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3) IMDG:

Environmentally hazardous substance, solid, n.o.s. (C.I. Basic violet 3) IATA:

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: no IATA: yes

14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H410 Very toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.