

## Safety Data Sheet **BRILLIANT GREEN**

SDS no. U6HLG1LA • Version 1.0 • Date of issue: 2024-02-04

---

### SECTION 1: Identification

#### GHS Product identifier

Product name **BRILLIANT GREEN**

#### Recommended use of the chemical and restrictions on use

Laboratory chemical.

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

---

### SECTION 2: Hazard identification

#### General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, oral, Cat. 4
- Germ cell mutagenicity, Cat. 2
- Serious eye damage/eye irritation, Cat. 1
- Toxic to reproduction, Cat. 2

#### GHS label elements, including precautionary statements

#### Pictograms



**Signal word**

**Danger**

**Hazard statement(s)**

H302  
H318  
H341  
H361

Harmful if swallowed  
Causes serious eye damage  
Suspected of causing genetic defects  
Suspected of damaging fertility or the unborn child

**Precautionary statement(s)**

P264  
P270  
P280  
P301+P312  
P305+P351+P338

Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Call a POISON CENTER/doctor/phycsian if you feel unwell,  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if  
present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor/phycsian  
Dispose of contents/container to an approved waste disposal facility

## SECTION 3: Composition/information on ingredients

**Mixtures**

Molecular weight: 482.64

**Components**

Component	CAS no.	Concentration
Brilliant Green (EC no.: 211-190-1)	633-03-4	<= 100 % (weight)
CLASSIFICATIONS: Germ cell mutagenicity, Cat. 2; Toxic to reproduction, Cat. 2; Acute toxicity, oral, Cat. 4; Serious eye damage/eye irritation, Cat. 1. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage; H341 - Suspected of causing genetic defects [route]; H361 - Suspected of damaging fertility or the unborn child [effect, route].		

## SECTION 4: First-aid measures

**Description of necessary first-aid measures**

General advice

Maintain eyewash fountain and safety shower in work area.

If inhaled

Remove victim from exposure to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if cough or other symptoms appear.

In case of skin contact

Wash affected areas with copious quantities of water immediately for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if irritation develops or persists.

In case of eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek immediate medical assistance.

If swallowed

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

**Most important symptoms/effects, acute and delayed**

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

**Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

---

**SECTION 5: Fire-fighting measures**

**Suitable extinguishing media**

Water spray, dry chemical, alcohol foam or carbon dioxide.

**Specific hazards arising from the chemical**

Hazardous combustion gases or vapours (carbon, nitrogen and sulfur oxides) possible in the event of a fire.

**Special protective actions for fire-fighters**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

---

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Wear protective clothing specified for normal operations (see Section 8)

**Methods and materials for containment and cleaning up**

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

---

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area in a tightly closed container away from incompatibles.

---

**SECTION 8: Exposure controls/personal protection**

**Appropriate engineering controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

**Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Skin protection**

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

### Body protection

Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

### Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

---

## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Solid
Appearance	Green powder.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	180°C
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	1% solution pH 3.9
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble: ~100 g/l at 25°C
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

### Supplemental information regarding physical hazard classes

No data available.

### Further safety characteristics (supplemental)

No data available.

---

## SECTION 10: Stability and reactivity

### Reactivity

Stable under normal conditions of storage and handling.

### Chemical stability

Stable under normal conditions of use and storage.

**Possibility of hazardous reactions**

Hazardous Polymerization: Will not occur.

**Conditions to avoid**

Heat, flames and incompatible products.

**Incompatible materials**

Strong oxidisers.

**Hazardous decomposition products**

May emit oxides of carbon, nitrogen or sulfur oxides when heated.

---

## **SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Ingestion: Harmful if swallowed. May cause irritation to the mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Inhalation: Inhalation of dust may result in respiratory irritation, cough and shortness of breath.

**Skin corrosion/irritation**

May cause slight irritation.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitization**

No data available.

**Germ cell mutagenicity**

H341 Suspected of causing genetic defects.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

H361 Suspected of damaging fertility or the unborn child.

**Summary of evaluation of the CMR properties**

No data available.

**Specific target organ toxicity (STOT) - single exposure**

No data available.

**Specific target organ toxicity (STOT) - repeated exposure**

No data available.

**Aspiration hazard**

No data available.

#### **Additional information**

-----

Brilliant Green: guinea pig LDLo intraperitoneal 3mg/kg (3mg/kg) LUNGS, THORAX, OR RESPIRATION: ACUTE PULMONARY EDEMA Proceedings of the Society for Experimental Biology and Medicine. Vol. 31, Pg. 825, 1934.

mouse LDLo intraperitoneal 5mg/kg (5mg/kg) LUNGS, THORAX, OR RESPIRATION: ACUTE PULMONARY EDEMA Proceedings of the Society for Experimental Biology and Medicine. Vol. 31, Pg. 825, 1934.

mouse LDLo intravenous 3mg/kg (3mg/kg) LUNGS, THORAX, OR RESPIRATION: ACUTE PULMONARY EDEMA Proceedings of the Society for Experimental Biology and Medicine. Vol. 31, Pg. 825, 1934.

rat LDLo intraperitoneal 8mg/kg (8mg/kg) LUNGS, THORAX, OR RESPIRATION: ACUTE PULMONARY EDEMA Proceedings of the Society for Experimental Biology and Medicine. Vol. 31, Pg. 825, 1934.

rat LDLo oral 10mg/kg (10mg/kg) LUNGS, THORAX, OR RESPIRATION: EMPHYSEMA

GASTROINTESTINAL: NECROTIC GHANGES

LIVER: OTHER CHANGES Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 7(2), Pg. 54, 1963

---

## **SECTION 12: Ecological information**

#### **Toxicity**

No data available.

#### **Persistence and degradability**

No data available.

#### **Bioaccumulative potential**

No data available.

#### **Mobility in soil**

No data available.

#### **Results of PBT and vPvB assessment**

No data available.

#### **Endocrine disrupting properties**

No data available.

#### **Other adverse effects**

No data available.

---

## **SECTION 13: Disposal considerations**

#### **Disposal methods**

#### **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

#### **Other disposal recommendations**

Do not discharge this material into waterways, drains and sewers.

---

## **SECTION 14: Transport information**

**ADG (Road and Rail)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

---

## **SECTION 15: Regulatory information**

**Safety, health and environmental regulations specific for the product in question**

**Australia SUSMP**

Poison Schedule: NS

**Canadian Domestic Substances List (DSL)**

Chemical name: Ethanaminium, N-[4-[[4-(diethylamino)phenyl]phenylmethylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, sulfate (1:1)

CAS: 633-03-4

---

## **SECTION 16: Other information**

**Further information/disclaimer**

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

**Preparation information**

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](https://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)