



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
OSHA HCS2012

Revision date 28-Apr-2023

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Basic Green 4 (Technical Grade)

### Other means of identification

**Product Code(s)** TRC-B127633-10G

**Synonyms** None

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

**Recommended use** Laboratory use

**Restrictions on use** Not to be used for human or animal consumption

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

#### Supplier Address

VHG  
LGC Standards  
276 Abby Road  
Manchester, NH 03103  
UNITED STATES OF AMERICA

Tel : +1 (603) 622-7660  
Fax : +1 (603) 622-5180  
Email : lgcusa@lgcgroup.com

Web : lgcstandards.com

**E-mail** sds-request@lgcgroup.com

### Emergency telephone number

#### **Emergency Telephone**

For Hazardous Materials or Dangerous Goods Incident  
Spill, Leak, Fire Exposure, or Accident  
Call CHEMTREC:  
USA & Canada 1-800-424-9300  
Rest of the world +1 703-741-5970

## 2. Hazard(s) identification

### Classification



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Classified according to OSHA.

|                                   |            |
|-----------------------------------|------------|
| Acute toxicity - Oral             | Category 3 |
| Serious eye damage/eye irritation | Category 1 |
| Reproductive toxicity             | Category 2 |
| Acute aquatic toxicity            | Category 1 |
| Chronic aquatic toxicity          | Category 1 |

## Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

### **Danger**

#### Hazard statements

Classified according to OSHA.

Toxic if swallowed

Causes serious eye damage

Suspected of damaging fertility or the unborn child

Very toxic to aquatic life with long lasting effects



### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

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 or doctor

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**



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Dispose of contents/container to an approved waste disposal plant

## Other information

No information available.

## 3. Composition/information on ingredients

### Substance

Formula  $C_{23}H_{25}ClN_2$

| Chemical name                 | CAS No   | Weight-% | Trade secret |
|-------------------------------|----------|----------|--------------|
| malachite green hydrochloride | 569-64-2 | 100      | *            |

## 4. First-aid measures

### Description of first aid measures

|                                    |                                                                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.                                                                                                                                                                |
| Inhalation                         | Remove to fresh air. Get medical attention immediately if symptoms occur.                                                                                                                                                                                        |
| Eye contact                        | Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. |
| Skin contact                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.                                                                                                                           |
| Ingestion                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.                                                                                                                                               |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                                                                                                                                                                    |

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

Symptoms Burning sensation.

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

Note to physicians Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



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|                                                                |                                                                                                                                    |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Large Fire                                                     | CAUTION: Use of water spray when fighting fire may be inefficient.                                                                 |
| Unsuitable extinguishing media                                 | Do not scatter spilled material with high pressure water streams.                                                                  |
| Specific hazards arising from the chemical                     | No information available.                                                                                                          |
| Explosion data                                                 |                                                                                                                                    |
| Sensitivity to mechanical impact                               | None.                                                                                                                              |
| Sensitivity to static discharge                                | None.                                                                                                                              |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| Personal precautions | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. |
| Other information    | Refer to protective measures listed in Sections 7 and 8.                                  |

### Methods and material for containment and cleaning up

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Pick up and transfer to properly labeled containers.  |

## 7. Handling and storage

### Precautions for safe handling

|                         |                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Conditions for safe storage, including any incompatibilities

|                    |                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage Conditions | Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.

**Hand protection** The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Physical state | Solid                    |
| Appearance     | Solid                    |
| Color          | dark green               |
| Odor           | No information available |
| Odor threshold | No information available |



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| <u>Property</u>                         | <u>Values</u>            | <u>Remarks • Method</u> |
|-----------------------------------------|--------------------------|-------------------------|
| pH                                      | No data available        | None known              |
| Melting point / freezing point          | No data available        | None known              |
| Initial boiling point and boiling range | No data available        | None known              |
| Flash point                             | No data available        | None known              |
| Evaporation rate                        | No data available        | None known              |
| Flammability                            | No data available        | None known              |
| Flammability Limit in Air               |                          | None known              |
| Upper flammability or explosive limits  | No data available        |                         |
| Lower flammability or explosive limits  | No data available        |                         |
| Vapor pressure                          | No data available        | None known              |
| Relative vapor density                  | No data available        | None known              |
| Relative density                        | No data available        | None known              |
| Water solubility                        | No data available        | None known              |
| Solubility(ies)                         | No data available        | None known              |
| Partition coefficient                   | No data available        | None known              |
| Autoignition temperature                | No data available        | None known              |
| Decomposition temperature               |                          | None known              |
| Kinematic viscosity                     | No data available        | None known              |
| Dynamic viscosity                       | No data available        | None known              |
| <u>Other information</u>                |                          |                         |
| Explosive properties                    | No information available |                         |
| Oxidizing properties                    | No information available |                         |
| Softening point                         | No information available |                         |
| Molecular weight                        | 364.91                   |                         |
| VOC content                             | No information available |                         |
| Liquid Density                          | No information available |                         |
| Bulk density                            | No information available |                         |

## 10. Stability and reactivity

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Reactivity                         | No information available.                            |
| Chemical stability                 | Stable under normal conditions.                      |
| Possibility of hazardous reactions | None under normal processing.                        |
| Conditions to avoid                | None known based on information supplied.            |
| Incompatible materials             | Strong acids. Strong bases. Strong oxidizing agents. |
| Hazardous decomposition products   | None known based on information supplied.            |

## 11. Toxicological information



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## Information on likely routes of exposure

### Product Information

|              |                                                                                                                                                                                              |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available.                                                                                                                            |
| Eye contact  | Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.                                                          |
| Skin contact | Specific test data for the substance or mixture is not available. May cause irritation.                                                                                                      |
| Ingestion    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Toxic if swallowed. (based on components). |

## Symptoms related to the physical, chemical and toxicological characteristics

|          |                                        |
|----------|----------------------------------------|
| Symptoms | Redness. Burning. May cause blindness. |
|----------|----------------------------------------|

## Acute toxicity

### Numerical measures of toxicity

No information available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                   |                                                                                                  |
|-----------------------------------|--------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | May cause skin irritation.                                                                       |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes burns. Causes serious eye damage. |
| Respiratory or skin sensitization | No information available.                                                                        |
| Germ cell mutagenicity            | No information available.                                                                        |

### Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name                             | ACGIH | IARC    | NTP | OSHA |
|-------------------------------------------|-------|---------|-----|------|
| malachite green hydrochloride<br>569-64-2 | -     | Group 3 | -   | -    |

### Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans



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|                                 |                                                                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reproductive toxicity</b>    | Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child. |
| <b>STOT - single exposure</b>   | No information available.                                                                                                                                      |
| <b>STOT - repeated exposure</b> | No information available.                                                                                                                                      |
| <b>Aspiration hazard</b>        | No information available.                                                                                                                                      |
| <b>Other adverse effects</b>    | No information available.                                                                                                                                      |
| <b>Interactive effects</b>      | No information available.                                                                                                                                      |

## 12. Ecological information

|                                      |                                                       |
|--------------------------------------|-------------------------------------------------------|
| <b>Ecotoxicity</b>                   | Very toxic to aquatic life with long lasting effects. |
| <b>Persistence and degradability</b> | No information available.                             |
| <b>Bioaccumulation</b>               | There is no data for this product.                    |
| <b>Other adverse effects</b>         | No information available.                             |

## 13. Disposal considerations

### Disposal methods

|                                            |                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.                                                                                  |

## 14. Transport information





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## DOT

|                                 |                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------|
| UN number or ID number          | UN2811                                                                                           |
| Extended proper shipping name   | Toxic solids, organic, n.o.s. (malachite green hydrochloride)                                    |
| Transport hazard class(es)      | 6.1                                                                                              |
| Packing group                   | II                                                                                               |
| Special Provisions              | IB8, IP2, IP4, T3, TP33                                                                          |
| DOT Marine Pollutant            | I                                                                                                |
| Marine pollutant                | malachite green hydrochloride                                                                    |
| Description                     | UN2811, Toxic solids, organic, n.o.s. (malachite green hydrochloride), 6.1, II, Marine pollutant |
| Emergency Response Guide Number | 154                                                                                              |

## TDG

|                            |                                                                               |
|----------------------------|-------------------------------------------------------------------------------|
| UN number or ID number     | UN2811                                                                        |
| UN proper shipping name    | Toxic solid, organic, n.o.s. (malachite green hydrochloride)                  |
| Transport hazard class(es) | 6.1                                                                           |
| Packing group              | II                                                                            |
| Special Provisions         | 16                                                                            |
| Marine pollutant           | P                                                                             |
| Description                | UN2811, Toxic solid, organic, n.o.s. (malachite green hydrochloride), 6.1, II |

## MEX

|                            |                                                                               |
|----------------------------|-------------------------------------------------------------------------------|
| UN number or ID number     | UN2811                                                                        |
| UN proper shipping name    | Toxic solid, organic, n.o.s. (malachite green hydrochloride)                  |
| Transport hazard class(es) | 6.1                                                                           |
| Packing group              | II                                                                            |
| Technical Name             | malachite green hydrochloride                                                 |
| Description                | UN2811, Toxic solid, organic, n.o.s. (malachite green hydrochloride), 6.1, II |
| Special Provisions         | 274                                                                           |

## IATA

|                            |                                                                               |
|----------------------------|-------------------------------------------------------------------------------|
| UN number or ID number     | UN2811                                                                        |
| UN proper shipping name    | Toxic solid, organic, n.o.s. (malachite green hydrochloride)                  |
| Transport hazard class(es) | 6.1                                                                           |
| Packing group              | II                                                                            |
| Technical Name             | malachite green hydrochloride                                                 |
| Description                | UN2811, Toxic solid, organic, n.o.s. (malachite green hydrochloride), 6.1, II |
| Special Provisions         | A3, A5                                                                        |
| ERG Code                   | 6L                                                                            |

## IMDG

|                            |                                                                 |
|----------------------------|-----------------------------------------------------------------|
| UN number or ID number     | Not regulated                                                   |
| UN number or ID number     | UN2811                                                          |
| UN proper shipping name    | Toxic solid, organic, n.o.s. (malachite green hydrochloride)    |
| Transport hazard class(es) | 6.1                                                             |
| Packing group              | II                                                              |
| EmS-No                     | F-A, S-A                                                        |
| Special Provisions         | 274                                                             |
| Marine pollutant           | P                                                               |
| Marine Pollutant           | malachite green hydrochloride                                   |
| Description                | UN2811, Toxic solid, organic, n.o.s., 6.1, II, Marine pollutant |



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## 15. Regulatory information

### International Inventories

TSCA Complies.

| Chemical name                 | CAS No   | US TSCA Inventory listing | US TSCA inactive/active designation |
|-------------------------------|----------|---------------------------|-------------------------------------|
| malachite green hydrochloride | 569-64-2 | Present                   | Active                              |

DSL/NDSL Contact supplier for inventory compliance status.  
EINECS/ELINCS Contact supplier for inventory compliance status.  
ENCS Contact supplier for inventory compliance status.  
IECSC Contact supplier for inventory compliance status.  
KECL Contact supplier for inventory compliance status.  
PICCS Contact supplier for inventory compliance status.  
AICS Contact supplier for inventory compliance status.

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name                            | SARA 313 - Threshold Values % |
|------------------------------------------|-------------------------------|
| malachite green hydrochloride - 569-64-2 | 1.0                           |

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).



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## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

| Chemical name                             | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------------------|------------|---------------|--------------|
| malachite green hydrochloride<br>569-64-2 | X          | X             | X            |

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

|                                   |                           |                           |                           |                              |
|-----------------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| <b>NFPA</b>                       | <b>Health hazards</b> 3   | <b>Flammability</b> 0     | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b>                       | <b>Health hazards</b> 3 * | <b>Flammability</b> 0     | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |
| <i>Chronic Hazard Star Legend</i> |                           | * = Chronic Health Hazard |                           |                              |

## Key or legend to abbreviations and acronyms used in the safety data sheet

### **Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

## **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AELG(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification



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Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 28-Apr-2023  
**Revision Note** No information available.

## Disclaimer

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

**End of Safety Data Sheet**