

### Safety Data Sheet acc. to OSHA HCS (HazCom 2012)

Printing date 08/30/2022

Reviewed on 08/30/2022

#### 1 Identification

- **Product identifier**
- **Trade name: Bromocresol green**
- **Catalogue number:** 00511769, 511760, 511761, 4511760, 4511761
- **Application of the substance / the mixture:** Reagent for water analysis
- **Manufacturer/Supplier:**  
Tintometer Inc.  
6456 Parkland Drive  
Sarasota, FL 34243  
USA  
phone: (941) 756-6410  
fax: (941) 727-9654  
www.lovibond.us  
Made in Germany
- **Emergency telephone number:** + 1 866 928 0789 (English, French, Spanish)

#### 2 Hazard(s) identification

- **Classification of the substance or mixture** The product is not classified as hazardous.
- **Label elements**
- **GHS label elements** none
- **Hazard pictograms** none
- **Signal word** none
- **Hazard statements** none
- **Other hazards** No further relevant information available.

#### \* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of organic and inorganic compounds
- **Composition and Information on Ingredients:**  
Percent ranges are used due to the confidential product information.

CAS: 9004-34-6	cellulose	2.5–5%
EINECS: 232-674-9		
RTECS: FJ5691460		

#### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes (at least 15 min) under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink 1-2 glasses of water.  
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**  
cardiovascular disorders  
after swallowing of large amounts:  
sickness  
vomiting
- **Danger:** Danger of disturbed cardiac rhythm.

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· **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
  - The product is not combustible.
  - Formation of toxic gases is possible during heating or in case of fire.
  - Hydrogen chloride (HCl)
  - Potassium oxide
- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information**
  - Collect contaminated fire fighting water separately. It must not enter the sewage system.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
  - Ambient fire may liberate hazardous vapours.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
- **Advice for non-emergency personnel:** No special measures required.
- **Advice for emergency responders:** Protective equipment: see section 8
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**
  - Ensure adequate ventilation.
  - Pick up mechanically.
  - Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

### 7 Handling and storage

- **Precautions for safe handling**
- **Advice on safe handling:** No special precautions are necessary if used correctly.
- **Hygiene measures:**
  - The usual precautionary measures for handling chemicals should be followed.
  - Do not eat, drink or smoke when using this product.
  - Wash hands before breaks and at the end of work.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
  - Protect from heat and direct sunlight.
  - Protect from exposure to the light.
  - Store in dry conditions.
  - Protect from humidity and water.
- **Recommended storage temperature:** 20°C +/- 5°C (approx. 68°F)
- **Specific end use(s)** No further relevant information available.

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### \* 8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**CAS: 9004-34-6 cellulose**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust, **respirable fraction
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> paper fibre, total dust

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Engineering measures:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

- **Personal protective equipment:**

- **Breathing equipment:**

Under normal use conditions according to the instruction manual no personal protective equipment is needed.

If exposure limits are exceeded or health impacts are experienced use respiratory protective device against the effects of fume/ dust/aerosol.

- **Recommended filter device for short term use:** Filter P1

- **Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

- **Penetration time of glove material**

Value for the permeation: Level  $\leq 1$  (10 min)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Safety glasses

use against the effects of fumes / dust

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment:**

Do not allow product to reach sewage system or any water course.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance:**

- **Form / Physical state:**

Tablets

- **Color:**

Green

- **Odor:**

Odorless

- **Odor threshold:**

Not applicable.

- **pH-value at 20°C (68°F):**

4.8

- **Melting point/freezing point:**

>150°C (>302°F)

- **Initial boiling point and boiling range:**

Not determined.

- **Flash point:**

Not applicable.

- **Flammability (solid, gas):**

The product is not combustible.

- **Ignition temperature:**

Not applicable (solid).

- **Decomposition temperature:**

Not determined.

- **Auto-ignition temperature:**

Product is not self-igniting.

- **Danger of explosion:**

Product does not present an explosion hazard.

- **Flammability or explosive limits:**

- **Lower:**

Not applicable.

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· <b>Upper:</b>	Not applicable.
· <b>Oxidizing properties:</b>	none
· <b>Vapor Pressure:</b>	Not applicable.
· <b>Density at 20°C (68°F):</b>	2 g/cm <sup>3</sup> (16.69 lbs/gal)
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not applicable.
· <b>Evaporation rate:</b>	Not applicable.
· <b>Solubility(ies)</b>	
· <b>Water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not applicable.
· <b>Viscosity:</b>	Not applicable.
· <b>Kinematic:</b>	Not applicable (solid).
· <b>Other information</b>	
· <b>Solids content:</b>	100 %

## 10 Stability and reactivity

- **Reactivity** see section "Possibility of hazardous reactions"
- **Chemical stability** Stable at ambient temperature (room temperature).
- **Possibility of hazardous reactions**  
Reacts with acids.  
Reacts with oxidizing agents.  
--> Forms heat.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** see section 5

## \*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**  
The following statements refer to the individual components.

<b>CAS: 9004-34-6 cellulose</b>		
Oral	LD50.	>5000 mg/kg (rat)
Dermal	LD50.	>2000 mg/kg (rabbit) (RTECS, limit test)

- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.

<b>Information on components:</b>		
<b>CAS: 9004-34-6 cellulose</b>		
Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 405	(rabbit: no irritation)

- **Sensitization:** Based on available data, the classification criteria are not met.

<b>Information on components:</b>		
<b>CAS: 9004-34-6 cellulose</b>		
Sensitization	OECD 406	(guinea pig: negative)

- **Carcinogenic categories**

<b>IARC (International Agency for Research on Cancer)</b>		
None of the ingredients is listed.		

<b>NTP (National Toxicology Program)</b>		
None of the ingredients is listed.		

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<ul style="list-style-type: none"> <li>· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b></li> <li>None of the ingredients is listed.</li> <li>· <b>Other information:</b> see section 8 / 15</li> <li>· <b>Synergistic Products:</b> None</li> <li>· <b>CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):</b> The following statements refer to the mixture: <ul style="list-style-type: none"> <li>· <b>Germ cell mutagenicity</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Carcinogenicity</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Reproductive toxicity</b> Based on available data, the classification criteria are not met.</li> <li>· <b>STOT (specific target organ toxicity) -single exposure</b> Based on available data, the classification criteria are not met.</li> <li>· <b>STOT (specific target organ toxicity) -repeated exposure</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Aspiration hazard</b> Based on available data, the classification criteria are not met.</li> </ul> </li> <li>· <b>Additional toxicological information:</b> When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.</li> <li>· <b>Other information</b> No further relevant information available.</li> </ul>
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## 12 Ecological information

<ul style="list-style-type: none"> <li>· <b>Toxicity</b></li> <li>· <b>Aquatic toxicity:</b> No further relevant information available.</li> <li>· <b>Persistence and degradability</b> No further relevant information available.</li> <li>· <b>Bioaccumulative potential</b> No further relevant information available.</li> <li>· <b>Mobility in soil</b> No further relevant information available.</li> <li>· <b>Other adverse effects</b> Avoid transfer into the environment.</li> </ul>
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## 13 Disposal considerations

<ul style="list-style-type: none"> <li>· <b>Waste treatment methods</b></li> <li>· <b>Recommendation:</b> Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.</li> <li>· <b>Uncleaned packagings:</b></li> <li>· <b>Recommendation:</b> Disposal must be made according to official regulations.</li> <li>· <b>Recommended cleansing agent:</b> Water, if necessary with cleansing agents.</li> </ul>
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## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	none
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	none
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	none
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	none
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.

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<b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
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### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

<b>Section 355 (Extremely hazardous substances):</b>
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None of the ingredients is listed.
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<b>Section 313 (Specific toxic chemical listings):</b>
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None of the ingredients is listed.
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<b>TSCA (Toxic Substances Control Act):</b>
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All components have the value ACTIVE.
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<b>Hazardous Air Pollutants</b>
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None of the ingredients is listed.
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<b>Proposition 65</b>
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<b>Chemicals known to cause cancer:</b>
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None of the ingredients is listed.
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<b>Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients is listed.
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<b>Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients is listed.
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<b>Chemicals known to cause developmental toxicity:</b>
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None of the ingredients is listed.
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<b>New Jersey Right-to-Know List:</b>
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CAS: 9004-34-6   cellulose
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<b>New Jersey Special Hazardous Substance List:</b>
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None of the ingredients is listed.
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<b>Pennsylvania Right-to-Know List:</b>
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CAS: 9004-34-6   cellulose
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<b>Pennsylvania Special Hazardous Substance List:</b>
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None of the ingredients is listed.
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<b>EPA (Environmental Protection Agency)</b>
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None of the ingredients is listed.
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<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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None of the ingredients is listed.
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- **Information about limitation of use:** Not required.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 08/30/2022 / 12

- **Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ACGIH® - American Conference of Governmental Industrial Hygienists

•A1 - Confirmed human carcinogen

•A2 - Suspected human carcinogen

•A3 - Confirmed animal carcinogen with unknown relevance to humans

•A4 - Not classifiable as a human carcinogen

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- A5 - Not suspected as a human carcinogen
- IARC - International Agency for Research on Cancer
- Group 1 - Carcinogenic to humans
- Group 2A - Probably carcinogenic to humans
- Group 2B - Possibly carcinogenic to humans
- Group 3 - Not classifiable as to carcinogenicity to humans
- Group 4 - Probably not carcinogenic to humans
- NTP - National Toxicology Program, U.S. Department of Health and Human Services
- Group K - Known to be Human Carcinogens
- Group R - Reasonably Anticipated to be Human Carcinogens
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit

· **Sources** Data arise from safety data sheets, reference works and literature.

· \* **Data compared to the previous version altered.**

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