

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011


**1 Identification of the substance/mixture and of the company/undertaking**

- **Product Identifier**
- **Product Name:** TB Brilliant Green K
- **Catalog Number:** 212523
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BD Diagnostic Systems  
7 Loveton Circle  
Sparks, MD 21152  
Telephone.: (410) 771 - 0100 or (800) 638 – 8663
- **Emergency telephone number:**  
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

**2 Composition/information on ingredients**

- **Chemical characterization:** Mixture
- **Description:** Mixture consisting of the following components.
- **Dangerous Components:** Void

**3 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Xn; Harmful  
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals  
The product has been classified and marked in accordance with regulations on hazardous materials.
- **Code letter and hazard designation of product:**  
Xn Harmful
- **Hazard-determining components of labelling:**  
brilliant green
- **Risk phrases:**  
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- **Safety phrases:**  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- **NFPA ratings (scale 0-4)**



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**· HMIS ratings (scale 0-4)**

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

**4 First aid measures****· General information**

Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.

- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Immediately call a doctor.
- **Information for doctor** Show this product label or this MSDS.

**5 Firefighting measures****· Suitable extinguishing agents**

CO<sub>2</sub>, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

**· Special hazards arising from the substance or mixture**

In certain fire conditions, traces of other toxic gases cannot be excluded.

- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Not required.

· **Environmental precautions:** Wipe up with damp sponge or mop.

· **Methods and material for containment and cleaning up:** No special measures required.

**· Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7 Handling and storage****· Handling**

· **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:** The product is not flammable

**· Storage**

· **Requirements to be met by storerooms and receptacles:** 15 - 30 °C

· **Information about storage in one common storage facility:**

Do not store together with acids.

Store away from oxidizing agents.

Store away from metals.

Store away from organic material, and chlorinated solvents.

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 · **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see Section 7.
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**  
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

### 9 Physical and chemical properties

- **General Information**
- **Appearance:**
  - Form:** Liquid
  - Color:** Green
  - Odor:** Odorless
- **pH-value:** Not applicable
- **Change in condition:** Undetermined
- **Melting point/Melting range:** 0°C (32 °F)
- **Boiling point/Boiling range:** 100°C (212 °F)
- **Flash point:** Not applicable
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapor pressure at 25°C (77 °F):** 23 hPa (17 mm Hg)
- **Density at 25°C (77 °F):** 0.99 g/cm<sup>3</sup>
- **Solubility in / Miscibility with Water:** Soluble

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Hazardous decomposition products:**  
Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

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**Product Name: TB Brilliant Green K**Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides (SO<sub>x</sub>)

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**11 Toxicological information**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****633-03-4 brilliant green**

Oral LD50 410 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:** No irritating effect.· **on the eye:** No irritating effect.· **Sensitization:** No sensitizing effects known.· **Subacute to chronic toxicity:** Target organs: respiratory system, gastrointestinal, eyes and skin.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful

**12 Ecological information**· **Acquatic toxicity:** No further relevant information available.· **Ecotoxicological effects:**· **Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

· **Additional ecological information:**· **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**13 Disposal considerations**· **Waste treatment methods**· **Recommendation**

Must not be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

This product is not considered a RCRA hazardous waste.

· **Uncleaned packagings:**· **Recommended cleansing agent:** Water, if necessary with cleansing agents.**14 Transport information**· **DOT regulations:**· **Hazard class:** -· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** -· **Maritime transport IMDG:**· **IMDG Class:** -

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· Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: -

· Transport/Additional information:

If a dashed line appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.

15 Regulatory information

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

· Department issuing MSDS:

Environmental, Health & Safety

Created by Michael J. Spinazzola

· Contact: Technical Service Representative