

## SAFETY DATA SHEET

Preparation Date: 06/23/2015

Revision Date: 12/19/2017

Revision Number: G2

### 1. IDENTIFICATION

#### Product identifier

**Product code:** B-297  
**Product Name:** BROMOCRESOL GREEN TS, (U.S.P. TEST SOLUTION)

#### Other means of identification

**Synonyms:** No information available  
**CAS #:** Mixture  
**RTECS #** Not available  
**CI#:** Not available

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

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 2

#### Label elements

##### **Danger**

##### **Hazard statements**

Causes serious eye irritation  
 May damage fertility or the unborn child  
 May cause respiratory irritation. May cause drowsiness or dizziness  
 Causes damage to organs through prolonged or repeated exposure  
 Highly flammable liquid and vapor

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**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Can burn with an invisible flame

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wash face, hands and any exposed skin thoroughly after handling  
Do not breathe dust/fume/gas/mist/vapors/spray  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/.../equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Ethyl Alcohol 200 proof	64-17-5	94.95
Water	7732-18-5	5
Bromocresol Green	76-60-8	0.05

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

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**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

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

**Symptoms**

- Causes serious eye irritation
- Dizziness
- Drowsiness
- May cause irritation of respiratory tract
- Causes damage to organs through prolonged or repeated exposure
- May damage fertility or the unborn child
- Causes eye irritation
- May cause skin irritation
- Dyspnea (Difficulty breathing and shortness of breath)
- Central nervous system effects
- Headache
- Ataxia
- Staggering gait
- Nausea
- Vomiting
- May cause cardiovascular effects

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

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol-resistant foam. Water spray.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon oxides

**Hazardous Combustion Products:** No information available.

**Specific hazards:** Flammable. Material can burn with invisible flame. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers,

basements, tanks). Ethanol has an explosive reaction with the oxidized coating around potassium metal. Ethanol ignites and then explodes on contact with acetic anhydride + sodium hydrosulfate (ignites and may explode), disulfuric acid + nitric acid, phosphorous(III) oxide platinum, potassium-tert-butoxide+ acids. Ethanol forms explosive products in reaction with the following compound : ammonia + silver nitrate (forms silver nitride and silver fulminate), iodine + phosphorus (forms ethane iodide), magnesium perchlorate (forms ethyl perchlorate), mercuric nitrate, nitric acid + silver (forms silver fulminate) silver nitrate (forms ethyl nitrate) silver(I) oxide + ammonia or hydrazine (forms silver nitride and silver fulminate), sodium (evolves hydrogen gas).

### **Special Protective Actions for Firefighters**

#### **Specific Methods:**

Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the material.

#### **Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## **6. ACCIDENTAL RELEASE MEASURES**

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

#### **Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

#### **Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

### Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Keep away from heat and sources of ignition.

#### Incompatible Materials:

Oxidizing agents  
Acids  
Alkali Metals  
Bases  
Metals  
Acid anhydrides  
Acid chlorides  
isocyanates

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

##### United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA	1000 ppm STEL	None
Water	7732-18-5	None	None	None	None
Bromocresol Green	76-60-8	None	None	None	None

##### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA 1880 mg/m <sup>3</sup> TWA	1000 ppm STEL	1000 ppm STEL	1000 ppm TWAEV 1880 mg/m <sup>3</sup> TWAEV
Water	7732-18-5	None	None	None	None
Bromocresol Green	76-60-8	None	None	None	None

##### Australia and Mexico

Components	CAS-No.	Australia	Mexico
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA 1880 mg/m <sup>3</sup> TWA	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA
Water	7732-18-5	None	None
Bromocresol Green	76-60-8	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

## Individual protection measures, such as personal protective equipment

### Personal Protective Equipment

<b>Eye protection:</b>	Goggles Safety glasses with side-shields
<b>Skin and body protection:</b>	Chemical resistant apron Gloves Long sleeved clothing
<b>Respiratory protection:</b>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
<b>Hygiene measures:</b>	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> No information available.
<b>Odor:</b> No information available.	<b>Taste</b> No information available.	<b>Formula:</b> No information available
<b>Molecular/Formula weight:</b> No information available	<b>Flammability:</b> Highly flammable liquid and vapor	<b>Flashpoint (°C/°F):</b> The lowest known value is CLOSED CUP: 12.78°C/55°F, OPEN CUP: 15.8-18°C/60.44-64.4°F (Ethyl Alcohol 200 Proof)
<b>Flash Point Tested according to:</b> Closed cup Open cup	<b>Autoignition Temperature (°C/°F):</b> The lowest known value is 363°C/685.4°F (Ethyl alcohol 200 proof)	<b>Lower Explosion Limit (%):</b> 3.3 (Ethyl alcohol 200 proof)
<b>Upper Explosion Limit (%):</b> 19 (Ethyl alcohol 200 proof)	<b>Melting point/range(°C/°F):</b> May start to solidify at -114.1°C/-173.4°F based on data for: Ethyl alcohol 200 proof	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> The lowest known value is 78.5°C/173.3°F (Ethyl alcohol 200 proof). Weighted average: 79.57°C/175.2°F	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> Weighted average: 0.8	<b>pH:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> The highest known value is 5.7 kPa (Ethyl alcohol 200 proof). Weighted average: 5.53 kPa
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> The highest known value is 1.59 (Ethyl alcohol 200 proof). Weighted average: 1.54	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> The highest known value is 100 ppm (Ethyl alcohol 200 proof)	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b>	<b>Solubility:</b>	

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No information available

Easily soluble in cold water  
Easily soluble in hot water  
Soluble in Acetone  
Soluble in diethyl ether  
Soluble in Methanol

## 10. STABILITY AND REACTIVITY

### Reactivity

For Ethyl alcohol:

When Ethanol comes in contact with Sodium, it liberates flammable hydrogen gas

It can react vigorously or explosively with acid hydrides or acid chlorides

It reacts with alkali metals to liberate flammable hydrogen gas

It reacts with acetyl bromide to evolve hydrogen bromide

It reacts with ammonia + silver nitrate to form silver nitride and silver fulminate

Ethyl Alcohol reacts vigorously with acetyl chloride.

Ethyl alcohol reacts with silver (I) oxide + ammonia or hydrazine to form silver nitride and silver fulminate

Ethanol ignites and then explodes on contact with the following compounds: acetic anhydride + sodium hydrosulfate, disulfuric acid + nitric acid, phosphorus (III) oxide, platinum, potassium tert-butoxide + acids

Ethanol rapidly absorbs moisture from the air. Can react vigorously/explosively with oxidizers. Ethanol can react vigorously/explosively with the following: ammonium hydroxide & silver oxide, chlorine or chlorine oxides, perchlorates (barium perchlorate, chloryl perchlorate, magnesium perchlorate (forms ethyl perchlorate), nitrosyl perchlorate, potassium perchlorate, silver perchlorate, uranyl perchlorate), acetic anhydride, acetyl bromide (evolves hydrogen bromide), acetyl chloride, aluminum sesquibromide ethylate, bromine pentafluoride, calcium hypochlorite, chromic anhydride, chromium trioxide, chromyl chloride, cyanuric acid + water, dichloromethane + sulfuric acid + nitrate (or) nitrite, manganese perchlorate + 2,2-dimethoxy propane, dioxygen difluoride, disulfuryl difluoride, fluorine nitrate, hydrogen peroxide, iodine heptafluoride, manganese heptoxide, iodine + methanol + mercuric oxide, iodine + Phosphorus (forms ethane iodide), mercuric nitrate, nitric acid, perchloric acid, permanganic acid, peroxodisulfuric acid, platinum black, potassium dioxide, potassium permanganate, potassium superoxide, potassium tert-butoxide, ruthenium(VIII) oxide, silver + nitric acid (forms silver fulminate), silver nitrate (forms ethyl nitrate), silver peroxide, sodium hydrazide, hydrogen peroxide + sulfuric acid, sulfuric acid + permanganates, uranium hexafluoride, sulfuric acid + sodium dichromate, tetrachlorosilane + water, silver & nitric acid, tetraphosphorus hexaoxide

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Acids  
Alkali Metals  
Bases  
Metals  
Acid anhydrides  
Acid chlorides  
isocyanates

**Hazardous decomposition products:** Carbon oxides.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

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## Information on likely routes of exposure

### Principal Routes of Exposure:

Eyes. Ingestion. Inhalation. Skin.

## Acute Toxicity

### Component Information

Ethyl Alcohol 200 proof	
CAS-No.	64-17-5

**LD50/oral/rat** = = 7060 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 3450 mg/kg Oral LD50 Mouse  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 124.7 mg/L Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = 39000 mg/m<sup>3</sup> 4 h  
**Other LD50 or LC50information** = >60000 ppm Inhalation LC50 Mouse 1 h  
5900 mg/m<sup>3</sup> Inhalation LC50 Rat 6 h  
20000 ppm Inhalation LC50 Rat 10 h  
5560 mg/kg Oral LD50 Guinea Pig  
6300 mg/kg Oral LD50 Rabbit

Water	
CAS-No.	7732-18-5

**LD50/oral/rat** = > 90 mL/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

Bromocresol Green	
CAS-No.	76-60-8

**LD50/oral/rat** = No information available  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available

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VALUE-Gas = No information available  
VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available  
VALUE - Gas = No information available  
VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** Causes skin irritation. Mildly to moderately irritating to the skin.

**Eye Contact:** Causes serious eye irritation. Causes moderate to severe eye irritation.

**Inhalation** May cause respiratory tract irritation. May cause dizziness and headache. May cause drowsiness/sleepiness. May cause irritation of respiratory tract. Symptoms may include coughing and shortness of breath. May cause nausea and headache. It may affect behavior/central nervous system (ataxia, general anesthetic, drowsiness). May affect respiration (respiratory depression). Inhalation of high concentrations of vapor may cause anesthetic effects. Inhalation of high concentrations of vapors may cause dizziness or suffocation. May affect the brain.

**Ingestion** May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, and alterations in gastric secretions. May affect behavior/central nervous system (central nervous system depression - amnesia, headache, muscular incoordination, excitation, mild euphoria, slurred speech, drowsiness, staggering gait, fatigue, changes in mood/personality, excessive talking, dizziness, ataxia, somnolence, coma/narcosis, hallucinations, distorted perceptions, general anesthetic), peripheral nervous system (spastic paralysis)vision (diplopia). Moderately toxic and narcotic in high concentrations. May also affect metabolism, blood, liver, respiration (dyspnea), and endocrine system. May affect respiratory tract, cardiovascular(cardiac arrhythmias, hypotension), and urinary systems. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause gastritis. May cause loss of appetite. May cause flushed skin. May affect the cardiovascular system (change in heart rate). May affect the cardiovascular system (hypotension or hypertension, tachycardia, dysrhythmias). It may affect behavior/central nervous system (excitation, mild euphoria, excessive talking, fatigue, headache, dizziness, drowsiness, staggering gait, ataxia, hallucinations, slurred speech, amnesia, confusion, release of inhibitions, aggressive behavior, convulsions, coma). May affect respiration (dyspnea, respiratory depression). It may affect the brain. May affect liver. May affect the blood. May affect the endocrine system. It may affect the spleen. May affect urinary system (kidneys).

**Aspiration hazard** No information available.

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

**Chronic Toxicity** Prolonged or repeated skin contact may cause dermatitis, and dryness and cracking of the skin. Prolonged or repeated ingestion may affect behavior/central nervous system. Prolonged or repeated ingestion may affect metabolism (cause anorexia, weight loss). Prolonged or repeated ingestion may affect the liver (fatty liver degeneration, cirrhosis of the liver. Prolonged or repeated ingestion may affect the cardiovascular system. Prolonged or repeated inhalation may affect the liver.

**Sensitization:** No information available.

**Mutagenic Effects:** For Ethyl alcohol:

May affect genetic material  
 Experiments with bacteria and/or yeast have shown mutagenic effects

**Carcinogenic effects:** Equivocal tumorigenic agent by Registry of Toxic Effects of Chemical Substances (RTECS) criteria. Confirmed Animal Carcinogen with Unknown Relevance to Humans.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Ethyl Alcohol 200 proof	64-17-5	Group 1 - Carcinogenic to humans - Monograph 100E [2012] in alcoholic beverages Monograph 96 [2010] in alcoholic beverages	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Not listed	Present	Not listed	Not listed
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Bromocresol Green	76-60-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 1 - Carcinogenic to Humans*

*(In alcoholic beverages)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** May damage fertility or the unborn child

**Reproductive Effects:** Causes adverse reproductive effects

**Developmental Effects:** May cause harm to the unborn child

May cause adverse developmental effects

**Teratogenic Effects:** May cause birth defects (teratogenic effects)

Causes birth defects (teratogenic effects)

**Specific Target Organ Toxicity**

**STOT - single exposure** Respiratory system. central nervous system.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure. liver. central nervous system. Skin. Reproductive System.

**Target Organs:** Skin. Liver. Central nervous system. Nervous system. Heart.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Ethyl Alcohol 200 proof - 64-17-5*

**Freshwater Fish Species Data:** 12.0 - 16.0 mL/L LC50 *Oncorhynchus mykiss* 96 h static 1 100 mg/L LC50 *Pimephales promelas* 96 h static 1 13400 - 15100 mg/L LC50 *Pimephales promelas* 96 h flow-through 1

**Water Flea Data:** 9268 - 14221 mg/L LC50 *Daphnia magna* 48 h 2 mg/L EC50 *Daphnia magna* 48 h 10800 mg/L EC50 *Daphnia magna* 24 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ethyl Alcohol 200 proof	64-17-5	None	None	None	None
Water	7732-18-5	None	None	None	None
Bromocresol Green	76-60-8	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Hazard Class:** 3  
**Subsidiary Class:** No information available  
**Packing group:** II  
**Emergency Response Guide Number:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** No Information available  
**Symbol(s):** No information available  
**Description:** UN1170,Ethanol ,3,PG II

#### TDG (Canada)

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant:** No Information available  
**Description:** UN1170,ETHANOL,3,PG II

#### ADR

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Hazard Class:** 3  
**Packing Group:** II  
**Subsidiary Risk:** No information available  
**Description:** UN1170 Ethanol,3,II

#### IMO / IMDG

**UN-No:** UN1170

**Product code:** B-297

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**Proper Shipping Name:** Ethanol solution  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant**  
**EMS:** F-E

**RID**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN1170 Ethanol,3,II

**ICAO**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN1170,Ethanol solution,3,PG II

**IATA**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**ERG Code:** 3L  
**Special Provisions**  
**Description:** UN1170,Ethanol solution,3,PG II

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Ethyl Alcohol 200 proof</i>	64-17-5	Present	KE-13217	Present	(2)-202	Present	Present	Present 200-578-6
<i>Water</i>	7732-18-5	Present	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
<i>Bromocresol Green</i>	76-60-8	Present	Present KE-02745	Present	Not present	Present	Present	Present 200-972-8

**U.S. Regulations**

*Ethyl Alcohol 200 proof*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 0844  
**Pennsylvania RTK:** Present  
**Minnesota - Hazardous Substance List:** Present  
**Louisiana Reportable Quantity List for Pollutants:** Present (listed as Volatile Organic Compounds)  
**California Directors List of Hazardous Substances:** Present  
**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1293

**FDA - 21 CFR - Total Food Additives** 169.175, 169.176, 169.177, 169.181, 172.340, 172.560, 172.580, 175.105, 176.180, 176.200, 177.1200, 177.1650, 178.1010, 184.1293, 73.30, 73.345, 73.615

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

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 GREEN TS, (U.S.P. TEST SOLUTION)

**Chemicals Known to the State of California to Cause Cancer:**

⚠️ WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)  
 WARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer.  
 For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

⚠️ WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)  
 WARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Ethyl Alcohol 200 proof	64-17-5	carcinogen (Ethanol in alcoholic beverages)	developmental toxicity (Ethyl alcohol in alcoholic beverages)	Not Listed	Not Listed
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Bromocresol Green	76-60-8	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Ethyl Alcohol 200 proof	64-17-5	None	None	None	None	None
Water	7732-18-5	None	None	None	None	None
Bromocresol Green	76-60-8	None	None	None	None	None

**U.S. TSCA**

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ethyl Alcohol 200 proof	64-17-5	Not Applicable	Not Applicable
Water	7732-18-5	Not Applicable	Not Applicable
Bromocresol Green	76-60-8	Not Applicable	Not Applicable

**Canada****WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information:

Component  
 Ethyl Alcohol 200 proof  
 64-17-5 ( 94.95 )  
 Water  
 7732-18-5 ( 5 )

WHMIS 2015 Hazard Classification  
 Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.; Serious Eye Damage/Eye Irritation - Category 2B: H320 Causes eye irritation.  
 Not a dangerous product according to HPR classification criteria

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**WHMIS 1988 Hazard Class**

B2 Flammable liquid  
 D2B Toxic materials

**Components**  
 Ethyl Alcohol 200 proof

WHMIS 1988  
 B2,D2B

**Product code:** B-297

**Product name:** BROMOCRESOL GREEN TS, (U.S.P. TEST SOLUTION)

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Water

Uncontrolled product according to WHMIS classification criteria

Bromocresol Green

Uncontrolled product according to WHMIS classification criteria

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Ethyl Alcohol 200 proof	0.1 %

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Ethyl Alcohol 200 proof	64-17-5	Present	Not Listed
Water	7732-18-5	Present	Not Listed
Bromocresol Green	76-60-8	CEPA, subsection 81(3) applies	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Ethyl Alcohol 200 proof	64-17-5	Not listed
Water	7732-18-5	Not listed
Bromocresol Green	76-60-8	Not listed

  

Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Ethyl Alcohol 200 proof	64-17-5	Not listed
Water	7732-18-5	Not listed
Bromocresol Green	76-60-8	Not listed

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Ethyl Alcohol 200 proof	64-17-5	Flammable liquids - Flam. Liq. 2: H225 Highly flammable liquid and vapour.603-002-00-5
Water	7732-18-5	
Bromocresol Green	76-60-8	

**EU - CLP (1272/2008)**

**R-phrase(s)**

R11 - Highly flammable.

**S -phrase(s)**

S 7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Ethyl Alcohol 200 proof	64-17-5	F; R11	No information	S: 7 16
Water	7732-18-5		No information	
Bromocresol Green	76-60-8		No information	

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

**Indication of danger:**

F - Highly flammable.

F



## 16. OTHER INFORMATION

**Preparation Date:** 06/23/2015  
**Revision Date:** 12/19/2017  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**