Printing date 06/05/2024

Reviewed on 06/05/2024

# **1** Identification

- · Product identifier
- Trade name: Bromocresol Green Stain For TLC Plates
- Article number: SPX605
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA

800-256-2586

- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org • Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

# 2 Hazard(s) identification

· Classification of the substance or mixture



Flammable Liquids 2 H225 Highly flammable liquid and vapor.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



# Signal word Danger Hazard statements Highly flammable liquid and vapor. Precautionary statements 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. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

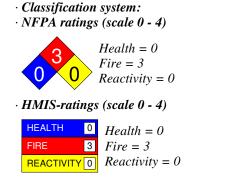
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### · Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

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

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof		99.911%
· Table of Nonhazardous Ingredients		
CAS: 76-60-8	Bromocresol Green	0.051%
CAS: 7732-18-5		0.032%
CAS: 1310-73-2	Sodium Hydroxide	0.006%

### **4** First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.

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· Advice for firefighters

· Protective equipment: No special measures required.

### 6 Accidental release measures

	tions, protective equipment and emergency procedures			
	equipment. Keep unprotected persons away.			
• Environmental p				
Dilute with plent				
	enter sewers/ surface or ground water.			
	terial for containment and cleaning up:			
	id-binding material (sand, diatomite, acid binders, universal binders, sawdust).			
	Dispose contaminated material as waste according to section 13.			
Ensure adequate				
· Reference to oth				
	information on safe handling.			
See Section 8 for information on personal protection equipment.				
See Section 13 for disposal information.				
• Protective Action	ı Criteria for Chemicals			
• PAC-1:				
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1,800 ppm		
CAS: 76-60-8	Bromocresol Green	13 mg/m <sup>3</sup>		
CAS: 1310-73-2	Sodium Hydroxide	0.5 mg/m <sup>3</sup>		
· PAC-2:				
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	3300* ppm		
CAS: 76-60-8	Bromocresol Green	140 mg/m <sup>3</sup>		
CAS: 1310-73-2	Sodium Hydroxide	5 mg/m <sup>3</sup>		
· PAC-3:				
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	15000* ppm		
CAS: 76-60-8	Bromocresol Green	840 mg/m <sup>3</sup>		

7 Handling and storage

CAS: 1310-73-2 Sodium Hydroxide

· Handling:

· Precautions for safe handling No special precautions are necessary if used correctly.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

• Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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50 mg/m³

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• Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

TLV Short-term value: 1000 ppm

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

### · Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material

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

• Eye protection:

Tig

Tightly sealed goggles

· Body protection: Protective work clothing

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Information on basic physical and cl	nemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Blue
Odor: Odor threshold:	Alcohol-like Not determined.
pH-value:	Not determined.
Change in condition	1140C(17220E)
Melting point/Melting range: Boiling point/Boiling range:	-114 °C (-173.2 °F) 78.3 °C (172.9 °F)
Flash point:	13 °C (55.4 °F)
-	Highly flammable.
Flammability (solid, gaseous):	
Auto igniting:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	3.5 Vol %
Upper:	19 Vol %
Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
Vapor pressure at 50 °C (122 °F):	280 hPa (210 mm Hg)
Density at 20 °C (68 °F):	0.78949 g/cm³ (6.58829 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	1.000 //
Water at 20 °C (68 °F):	1,000 g/l
Partition coefficient (n-octanol/water	'): Not determined.
Viscosity:	
Dynamic at 20 °C (68 °F):	1.2 mPas
Kinematic:	Not determined.
Solvent content:	00.0 M
Organic solvents:	99.9 %
Water:	0.0 % 99.91 %
VOC content:	99.91 % 788.8 g/l / 6.58 lb/gal
Solids content:	100.0 %

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## **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

· Carcinogenic categories

### · IARC (International Agency for Research on Cancer)

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### **12 Ecological information**

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · *Bioaccumulative potential* No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

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# **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation: Disposal must be made according to official regulations.*
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, IMDG, IATA	UN1170
	011170
· UN proper shipping name · DOT	Ethanol solution
· IMDG, IATA	ETHANOL solution
· Transport hazard class(es)	
DOT	
RAMMABLE LOOD	
· Class	3 Flammable liquids
· Label	3
• Class • Label	3 Flammable liquids 3
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code)	
· EMS Number:	F-E,S-D
Stowage Category	A
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 15 kg
	On cargo aircraft only: 50 kg

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For TLC Plates			

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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1 kg Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION, 3, II	

# **15 Regulatory information**

<ul> <li>Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.</li> <li>Sara</li> </ul>
· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):

Ethyl Alcohol, Absolute 200 Proof	ACTIVE
Bromocresol Green	ACTIVE
Water	ACTIVE
Sodium Hydroxide	ACTIVE
· Hazardous Air Pollutants	

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 9)

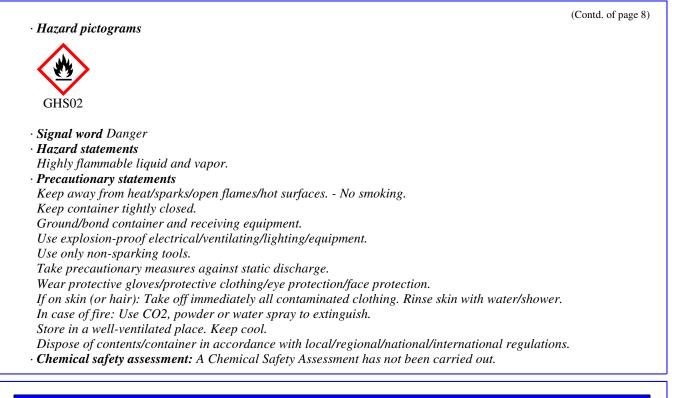
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### **16 Other information**

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.

- · Department issuing SDS: Environment protection department.
- Contact: Date of Preparation / Last Revision:
  Date of preparation / last revision Revision 1.2, 06/05/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/05/2024
  Abbreviations and acronyms:
- 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2  $\cdot$  \* Data compared to the previous version altered.