

**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 2

Revision date: 01/08/2019

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

**Product name:** Bromocresol Green - Methyl Red Solution (Ethanol Soln.) [mixed Indicator]  
**Product code:** B0120

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:** Reagents.

**1.3 Details of the supplier of the safety data sheet****Supplier:**

TCI EUROPE N.V.  
 Boerenveldseweg 6  
 Haven 1063  
 B-2070 Zwijndrecht  
 Telephone: +32(0)3 735 07 00  
 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

<b>Flammable liquids</b>	Category 2
<b>Serious eye damage/eye irritation</b>	Category 2
<b>Germ cell mutagenicity</b>	Category 1B
<b>Reproductive toxicity</b>	Category 1A
<b>Specific target organ toxicity - Single exposure [Category 3]</b>	Respiratory tract irritation, Narcotic effects
<b>Specific target organ toxicity - Repeated exposure [Category 1]</b>	Liver
<b>Specific target organ toxicity - Repeated exposure [Category 2]</b>	Nervous system

**2.2 Label elements****Pictograms or hazard symbols****Signal word**

Danger

**Hazard statements**

H225-Highly flammable liquid and vapour.  
 H319-Causes serious eye irritation.  
 H340-May cause genetic defects.  
 H360FD-May damage fertility. May damage the unborn child.  
 H372-Causes damage to organs through prolonged or repeated exposure : Liver  
 H373-May cause damage to organs through prolonged or repeated exposure : Nervous system  
 H335-May cause respiratory irritation.

**Precautionary statements**

H336-May cause drowsiness or dizziness.  
 P260-Do not breathe mist, vapours or spray.  
 P280-Wear protective gloves, protective clothing, face protection.  
 P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.  
 P305+P351+P338+P337+P313-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 or attention.  
 P308+P313-IF exposed or concerned: Get medical advice or attention.

**2.3 Other hazards****Results of PBT and vPvB assessment**

B0120

*Bromocresol Green - Methyl Red  
 Solution (Ethanol Soln.) [mixed  
 Indicator]*

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PBT: Not applicable  
vPvB: Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Components:** Bromocresol Green - Methyl Red Solution (Ethanol Soln.) [mixed Indicator]  
**Percent:** ....  
**CAS RN:** NA  
**Synonyms:** Methyl Red - Bromocresol Green Solution (Ethanol Soln.)  
**Chemical Formula:** ----  
**Hazardous composition:** **Chemical name: Ethanol** Conc.: > 90%  
CAS RN:64-17-5 EC No.: 200-578-6  
Flam. Liq. 2, Eye Irrit. 2  
H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.  
**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.  
**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.  
**Ingestion:** Get medical advice/attention. Rinse mouth.  
**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

No data available

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

No data available

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Dry chemical, foam, water in large amounts, carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide etc

#### 5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

### SECTION 6: Accidental release measures

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

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

#### 6.2 Environmental precautions

Prevent product from entering drains

#### 6.3 Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

#### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling</b>	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact!
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.
<b>7.3 Specific end use(s)</b>	No further relevant information available.

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	No data available (Ethanol) ACGIH TLV(STEL):1000 ppm OSHA PEL(TWA):1000 ppm
<b>8.2 Exposure controls</b>	Install a closed system or local exhaust. Also install safety shower and eye bath.
<b>Respiratory protection:</b>	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
<b>Hand protection:</b>	Impervious gloves.
<b>Eye protection:</b>	Safety goggles. A face-shield, if the situation requires.
<b>Skin and body protection:</b>	Impervious protective clothing. Protective boots, if the situation requires.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b>	
<b>Physical state (20°C):</b>	Liquid
<b>Form:</b>	Clear
<b>Colour:</b>	Red - Deep red
<b>Odour:</b>	Characteristic
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	No data available (Ethanol) -117°C
<b>Boiling point/range:</b>	No data available (Ethanol) 79°C
<b>Flash point:</b>	No data available (Ethanol) 13°C
<b>Evaporation rate(Butyl Acetate=1):</b>	No data available
<b>Flammability(solid, gas):</b>	No data available
<b>Flammability or explosive limits:</b>	
<b>Lower:</b>	No data available
<b>Upper:</b>	No data available
<b>Vapour pressure:</b>	No data available.
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Solubility(ies):</b>	
<b>[Water]</b>	No data available
<b>[Other solvents]</b>	No data available
<b>Partition coefficient:</b>	No data available (Ethanol) -0.32
<b>n-octanol/water:</b>	
<b>Autoignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Dynamic Viscosity:</b>	No data available
<b>Kinematic viscosity:</b>	No data available
<b>9.2 Other safety information</b>	No data available

## SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper conditions.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	Spark, Open flame, Static discharge
10.5 Incompatible materials	Oxidizing agents, Acid chlorides, Acid anhydrides, Peroxides, Ammonia
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide etc

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute Toxicity:	No data available (Ethanol) orl-hmn LDLo:1400 mg/kg orl-rat LD50:7060 mg/kg skn-rbt LDLo:20 g/kg ihl-rat LC50:20000 ppm/10H
Skin corrosion/irritation:	No data available (Ethanol) skn-rbt 400 mg open MLD
Serious eye damage/irritation:	No data available (Ethanol) eye-rbt 500 mg/24H MLD
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available (Ethanol) cyt-hmn-fbr 12000 ppm mmo-sat 11 pph (+S9) mmo-esc 140 g/L (-S9)
Carcinogenicity:	
IARC =	No data available
NTP =	No data available (Ethanol) orl-mus TDLo:320 mg/kg/50W-I rec-mus TDLo:120 g/kg/18W-I IARC = 1
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available

## SECTION 12: Ecological information

12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM <sup>3</sup> /mol):	No data available
12.5 Results of PBT and vPvB assessment	
PBT:	Not applicable
vPvB:	Not applicable
12.6 Other adverse effects	No data available

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

### SECTION 14: Transport information

14.1 UN number 1170

#### 14.2 UN proper shipping name

ADR/RID Ethanol solution  
IMDG/IMO Ethanol solution  
ICAO/IATA Ethanol solution

#### 14.3 Transport hazard class(es)

ADR/RID 3: Flammable liquid  
IMDG/IMO 3: Flammable liquid  
ICAO/IATA 3: Flammable liquid

#### 14.4 Packaging group

ADR/RID II  
IMDG/IMO II  
ICAO/IATA II

#### 14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006 Not listed

15.2 Chemical safety assessment A chemical safety assessment has not been carried out.

### SECTION 16: Other information

Prepared by: TCI EUROPE N.V.  
Issue date: 01/08/2019

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**