



Safety Data Sheet

1. IDENTIFICATION

Product Identifier:	Bromocresol Purple Indicator, 0.1% w/v in Denatured Ethanol
Product Code(s):	B1010
Synonyms:	Mixture.
Recommended Use:	For manufacturing, industrial, and laboratory use only. For use as a solvent, a cleaning agent, or a laboratory reagent.
Uses Advised Against:	Not for food, drug, or household use.
Supplier:	Rocky Mountain Reagents, Inc. 4621 Technology Drive, Golden, CO 80403 Phone: (303) 762-0800 Fax: (303) 762-1240
Emergency Phone Number:	(800) 255-3924 (CHEM-TEL)

2. HAZARDS IDENTIFICATION

Hazard Classifications:	Acute Toxicity – Oral: Acute Toxicity – Dermal: Acute Toxicity – Inhalation: Specific Target Organ Toxicity (Single Exposure): Flammable Liquids:	Category 4 Category 4 Category 4 Category 1 Category 2
Signal Word:	DANGER	
Hazard Statements:	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes damage to organs. Highly flammable liquid and vapor.	
Pictograms:		

Precautionary Statements:

Prevention:	Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves, protective clothing, eye protection, and face protection. Do not breathe fumes, mists, vapors, or spray. Use only outdoors or in a well-ventilated area. Keep away from heat, sparks, open flames, and hot surfaces. – No smoking. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and transportation equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Response:	If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin (or hair): Rinse skin with water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If exposed: Call a poison center or doctor. In case of fire: Use water spray, dry powder, alcohol resistant foam, or carbon dioxide to extinguish.
Storage:	Store locked up. Store in a well-ventilated place. Keep cool.
Disposal:	Dispose of contents and container in accordance with local, regional, national, and international regulations.
Hazards Not Otherwise Classified:	This product is toxic to humans. Primates are especially susceptible to the toxic effects of methanol, which are not reflected through toxicity data (see Section 11). May cause adverse reproductive effects based on human and animal data.
Toxicity Statement:	Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Ethanol	Ethyl Alcohol	64-17-5	C₂H₅OH	89.5 - 91.5
Methanol	Methyl Alcohol	67-56-1	CH₃OH	4.0 - 5.0
Isopropanol	Isopropyl Alcohol	67-63-0	C ₃ H ₇ OH	4.5 – 5.5
Bromocresol Purple, Sodium Salt	BCP, Sodium Salt	62625-30-3	NaC ₂₁ H ₁₅ O ₅ SBr ₂	0.1265

Trade Secret Statement:

Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious, or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

	proper respiratory medical device. Call a poison center or doctor immediately if you feel unwell or are concerned.
Ingestion:	Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a poison center or doctor immediately if you feel unwell or are concerned.
Skin Contact:	Remove contaminated clothing and shoes. Wash skin with soap and plenty of water for at least 15 minutes. Wash clothing before reuse. Call a poison center or doctor immediately if you feel unwell or are concerned.
Eye Contact:	Check for and remove contact lenses if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a poison center or doctor immediately if you feel unwell or are concerned.
General Advice:	Poison information centers in each state can provide additional assistance for scheduled poisons. Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.
Symptoms and Effects:	May cause irritation to eyes, skin, respiratory tract, and gastrointestinal tract. Absorption through skin may cause visual disturbances and metabolic acidosis. Inhalation of vapors may cause dizziness, suffocation, nervous system effects, and cardiovascular effects. May affect the blood, brain, urinary system, liver, spleen, and eyes. Ingestion may cause headache, nausea, vomiting, diarrhea, abdominal pain, constipation, nervous system effects, blindness, and respiration effects. May affect the blood, liver, kidneys, cardiovascular system, brain, pancreas, and eyes.
Immediate Medical Care/ Special Treatment:	If you feel unwell or are concerned, call a poison center or doctor immediately. Treat symptomatically.

5. FIREFIGHTING MEASURES

Products:

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

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

Hazardous Combustion Carbon oxides, hydrogen bromide, sulfur oxides, sodium oxides.

Specific Hazards: Highly flammable. Vapors may cause flash fire or ignite explosively. Burns vigorously if ignited easily by heat, sparks, or flames. Material may burn with an invisible flame. Sealed containers may explode when heated or involved in fire. Material is sensitive to static discharge. Vapors may travel considerable distance to source of ignition and flash back. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard.

Special Protective Equipment/
Precautions for Firefighters:As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-
pressure or pressure-demand breathing apparatus and full protective gear. Use water spray
to cool unopened containers. Move containers from fire area, if you can do so without risk.
This material may evaporate and leave a flammable residue if spilled. In the event of fire
and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected

Protective Equipment:	personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment (see Section 8). Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharge. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing.
Emergency Procedures:	In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).
Methods for Containment:	Eliminate all sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material where possible. Product should not be released to the environment. Contain and recover liquid when possible.
Methods for Cleanup:	Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling:

Do not handle, store, or open near an open flame, sources of heat, or sources of ignition. Wear personal protective equipment (see Section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Take precautionary measures against static discharge. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues (vapors, liquids). Observe all warnings and precautions listed for this product.

Storage:

Store in a cool, dry, ventilated area. Store in a segregated and approved area away from incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Ground container and transfer equipment. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:	Ethanol:	ACGIH: OSHA:	STEL: PEL:	1000 ppm 1000 ppm 1900 mg/m ³
	Methanol:	ACGIH:	TWA: STEL: BEL:	200 ppm 250 ppm 15 mg/L
		OSHA:	PEL:	200 ppm 260 mg/m ³
	lsopropanol:	ACGIH:	TWA: STEL: BEL:	200 ppm 400 ppm 40 mg/L
		OSHA:	PEL:	400 ppm 980 mg/m ³

Bromocresol Purple, Sodium Salt: No information found.

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection:	Wear safety glasses with side shields or goggles and a face shield. Maintain approved eye wash station and accessible rinse facilities in work area.
Skin Protection:	Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.
Respiratory Protection:	An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or in any other circumstances where air-purifying respirators may not provide adequate protection.
Specific Requirements for Personal Protective Equipment:	Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

PHYSICAL AND CHEMICAL PROPERTIES 9.

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Appearance:	Reddish-orange, transparent liquid.
Odor:	Alcoholic.
Odor Threshold:	84 ppm (estimate)
Formula Weight:	Mixture.
pH:	No information found.
Melting/Freezing Point:	-114 °C
Boiling Point/Range:	78.5 °C
Decomposition Temperature:	No information found.
Flash Point:	13 °C
Auto-ignition Temperature:	362 °C
Flammability:	Explosive as vapor; flammable as liquid.
Flammability/Explosive Limits:	Lower: 3.3% by volume Upper: 19% by volume
Solubility:	Miscible with water, ether, acetone, benzene, acetic acid.
Vapor Pressure:	43.5 mmHg at 20 °C
Vapor Density:	1.6 (Air = 1)
Specific Gravity:	0.79 (Water = 1)
Evaporation Rate:	2.0 (Butyl Acetate = 1)
Viscosity:	No information found.

10. STABILITY AND REACTIVITY

Reactivity Data:	Highly flammable. See Section 9.
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat, flames, sparks, sources of ignition, incompatible materials.
Incompatible Materials:	Oxidizing agents, metals, halogens, isocyanates, inorganic salts, inorganic hydrides, organic materials, hydrazine, acid anhydrides, bases, acids.
Hazardous Decomposition Products:	Carbon oxides, hydrogen bromide, sulfur oxides, sodium oxides.
Possibility of Hazardous Reactions:	May react vigorously, violently, or explosively if exposed to extreme thermal conditions or in contact with the incompatible materials listed above.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:	Inhalation, ingestion, skin contact,	eye contact.	
Acute Effects:	Harmful or fatal if swallowed, inhale eyes, skin, respiratory tract, and ga disturbances if absorbed into the b liver, spleen, eyes, kidneys, cardio	astrointestinal tract. May ca lood stream. May affect the	ause blindness or visual e blood, brain, urinary system,
Chronic Effects:	May cause central nervous system repeated exposure may cause live and heart damage. Prolonged or re effects, and dermatitis.	r, kidney, brain, cardiovasc	cular system, blood, spleen,
Toxicological Data:	Ethanol:	LD₅₀ Oral, Rat: LC₅₀ Inhalation, Rat:	7060 mg/kg 124.7 mg/L 4 h
	Methanol:	LD ₅₀ Oral, Rat: LD ₅₀ Dermal, Rabbit: LC ₅₀ Inhalation, Rat:	5628 mg/kg 15,800 mg/kg 87.5 mg/L 6 h
	Isopropanol:	LD ₅₀ Oral, Rat: LD ₅₀ Dermal, Rabbit: LC ₅₀ Inhalation, Rat:	5045 mg/kg 12,800 mg/kg 72.6 mg/L 4 h
	Bromocresol Purple, Sodium Salt:	May cause skin and eye	irritation based on animal data.
Symptoms of Exposure:	Irritation, headache, unconsciousn dizziness, suffocation, shortness o cough, nausea, vomiting, diarrhea, effects.	f breath, nervous system e	ffects, cardiovascular effects,
Carcinogenic Effects:	This product is not considered to b	e a carcinogen by IARC, A	CGIH, NTP, or OSHA.

ACGIH:	Isopropanol: A4 – Not classifiable as a human carcinogen
IARC:	Isopropanol: 3 – Not classifiable to humans
12. ECOLOGICAL INF	ORMATION
Ecotoxicological Data:	Ethanol: EC ₅₀ Water Flea (Daphnia magna): LC ₅₀ Fathead Minnow (Pimephales promelas): > 100 mg/L 96 h
	Methanol: EC ₅₀ Water Flea (Daphnia magna): > 10,000 mg/L 48 h LC ₅₀ Fathead Minnow (Pimephales promelas): > 100 mg/L 96 h
	Isopropanol: LC ₅₀ Western Mosquitofish (Gambusia affinis): >1400 mg/L 96 h
	Bromocresol Purple, Sodium Salt: No information found.
Persistence and Degradability:	No information found.
Environmental Effects:	May be hazardous to the aquatic environment. Avoid release to the environment.
13. DISPOSAL INFOR	MATION
Disposal Instructions:	All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers.
Contaminated Packaging:	Because emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near product container. Offer rinsed packaging material to local recycling facilities.

UN Number:	UN1987
Proper Shipping Name:	Alcohols, n.o.s. (Denatured ethanol)
Hazard Class:	3
Packing Group:	II
ERG Number:	127
Environmental Hazard Regulations:	No information found.
Other Transport Precautions:	No information found.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA:	This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Inventory:	All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302:	No information found.		
Sections 311/312:	Hazard Category	List (Yes/No)	
	Section 311 – Hazardous Chemical	Yes	
	Immediate Hazard	Yes	
	Delayed Hazard	Yes	
	Fire Hazard	Yes	
	Pressure Hazard	No	
	Reactivity Hazard	No	
Section 313:	Isopropyl Alcohol, Methanol: De	e Minimis Concentr	ration: 1.0%
CERCLA Reportable Quantities:	Methanol: 5000 lb		
California Proposition 65:	This product can expose you to chemicals including methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.		

International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*A "Yes" indicates that the listed components of this product comply with the inventory requirements administered by the governing country or region.

16. OTHER INFORMATION

Disclaimer:

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March 1, 2024.

Reason for Revision:

Not applicable.