

# SAFETY DATA SHEET



F32822 Bromothymolbluesol.ac.bas,100LFL

**000000021860**

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Bromothymol Blue solution

Number : 000000021860

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.  
1953 South Harvey Street  
Muskegon, MI 49442

For more information call : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or**  
: **+1-703-527-3887**  
:  
: (24 hours/day, 7 days/week)

## SECTION 2. HAZARDS IDENTIFICATION

### Emergency Overview

Form : liquid

Color : blue

Odor : alcohol-like

### Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 3  
Eye irritation, Category 2A

### GHS Label elements, including precautionary statements

## SAFETY DATA SHEET

**Honeywell**  
**Fluka™**

F32822 Bromothymolbluesol.ac.bas,100LFL

**000000021860**

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

Symbol(s)

:



Signal word

: Warning

Hazard statements

: Flammable liquid and vapour.  
Causes serious eye irritation.

Precautionary statements

: **Prevention:**

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.  
Wash skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
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.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

Store in a well-ventilated place. Keep cool.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity**

ACGIH:

Ethanol

64-17-5

A3: Confirmed animal carcinogen

F32822 Bromothymolbluesol.ac.bas,100LFL

**000000021860**

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	>=70.00 - <90.00 %
Ethanol	64-17-5	>=10.00 - <20.00 %

**SECTION 4. FIRST AID MEASURES**

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : If breathed in, move person into fresh air. If symptoms persist, call a physician.
- Skin contact : Wash off immediately with plenty of water. If symptoms persist, call a physician.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Remove contact lenses. Call a physician immediately.
- Ingestion : Clean mouth with water and drink afterwards plenty of water. Call a physician immediately.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO2)  
Dry powder
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : Flammable.  
In case of fire hazardous decomposition products may be

F32822 Bromothymolbluesol.ac.bas,100LFL

**000000021860**

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

produced such as:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Evacuate personnel to safe areas.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Ventilate the area.  
Do not use sparking tools.  
Use explosion-proof equipment.  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**SECTION 7. HANDLING AND STORAGE****Handling**

- Handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.
- Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition.  
No smoking.  
Take precautionary measures against static discharges.  
Vapours may form explosive mixtures with air.

F32822 Bromothymolbluesol.ac.bas,100LFL

**000000021860**

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

**Storage**

Requirements for storage areas and containers : Store in area designed for storage of flammable liquids. Protect from physical damage.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Store in original container.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.  
Prevent vapour buildup by providing adequate ventilation during and after use.

Eye protection : Safety glasses with side-shields

Hand protection : Solvent-resistant gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : General industrial hygiene practice.

**Exposure Guidelines**

Components	CAS-No.	Value	Control parameters	Update	Basis
Ethanol	64-17-5	STEL : Short term exposure limit	(1,000 ppm)	2009	ACGIH:US. ACGIH Threshold Limit Values

## SAFETY DATA SHEET



F32822 Bromothymolbluesol.ac.bas,100LFL

000000021860

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

Ethanol	64-17-5	REL : Recomm ended exposure limit (REL):	1,900 mg/m3 (1,000 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Ethanol	64-17-5	PEL : Permissi ble exposure limit	1,900 mg/m3 (1,000 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Ethanol	64-17-5	TWA : Time weighted average	1,900 mg/m3 (1,000 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : blue

Odor : alcohol-like

Flash point : 100 °F (38 °C)

Ignition temperature : Note: Not applicable

Decomposition temperature : Note: No decomposition if used as directed.

F32822 Bromothymolbluesol.ac.bas,100LFL

**000000021860**

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Keep away from direct sunlight. Keep product and empty container away from heat and sources of ignition.
Incompatible materials to avoid	: Reactions with alkali metals. Oxidizing agents Peroxides
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO <sub>2</sub> )

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: Note: no data available
Acute inhalation toxicity	: Note: no data available
Acute dermal toxicity	: Note: no data available
Skin irritation	: Note: no data available
Eye irritation	: Note: no data available
Sensitisation	: Note: no data available
Repeated dose toxicity	: Note: no data available
Genotoxicity in vitro	: Note: no data available

# SAFETY DATA SHEET



F32822 Bromothymolbluesol.ac.bas,100LFL

000000021860

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

Further information  
Ethanol

: Confirmed animal carcinogen with unknown relevance to humans.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

Toxicity to bacteria : Note: no data available

### Elimination information (persistence and degradability)

Biodegradability : Note: no data available

### Further information on ecology

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

## SECTION 14. TRANSPORT INFORMATION

DOT	UN/ID No.	: UN 1170
	Proper shipping name	: Ethanol solution
	Class	3
	Packing group	III
	Hazard Labels	3



## SAFETY DATA SHEET



F32822 Bromothymolbluesol.ac.bas,100LFL

000000021860

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

**IATA**

UN/ID No.	: UN 1170
Description of the goods	: Ethanol solution
Class	: 3
Packaging group	: III
Hazard Labels	: 3
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355
Packing instruction (passenger aircraft)	: Y344

**IMDG**

UN/ID No.	: UN 1170
Description of the goods	: Ethanol solution
Class	: 3
Packaging group	: III
Hazard Labels	: 3
EmS Number	: F-E, S-D
Marine pollutant	: no

## SECTION 15. REGULATORY INFORMATION

## Inventories

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing : On the inventory, or in compliance with the inventory

## SAFETY DATA SHEET



F32822 Bromothymolbluesol.ac.bas,100LFL

000000021860

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

## Chemical Substances

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

## National regulatory information

**SARA 302 Components** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Massachusetts RTK** : Ethanol 64-17-5

**New Jersey RTK** : Ethanol 64-17-5

**Pennsylvania RTK** : Ethanol 64-17-5

## SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 2	2
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

F32822 Bromothymolbluesol.ac.bas,100LFL

**000000021860**

Version 1.0

Revision Date 02/17/2017

Print Date 10/17/2019

**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group