

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Version: 1.1

Date of issue: 04/09/2015 Revision date: 05/15/2018 Supersedes: 04/09/2015

#### **SECTION 1: Identification**

1.1. Identification

Product form : Mixtures

Product name : Methylene Blue Reagent, for Surfactants

Product code : LC16970

1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.

Recommended use : Laboratory chemicals

Restrictions on use : Not for food, drug or household use

# 1.3. Supplier

LabChem Inc

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Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

## 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or +1-703-741-5970

# SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not classified

### 2.2. GHS Label elements, including precautionary statements

Not classified as a hazardous chemical.

Other hazards not contributing to the

classification

: None under normal conditions.

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Water	(CAS-No.) 7732-18-5	94.967	Not classified
Sodium Phosphate, Monobasic, Anhydrous	(CAS-No.) 7558-80-7	4.35	Not classified
Sulfuric Acid	(CAS-No.) 7664-93-9	0.68	Skin Corr. 1A, H314 Eye Dam. 1, H318
Methylene Blue	(CAS-No.) 61-73-4	0.003	Acute Tox. 4 (Oral), H302 Aquatic Acute 2, H401

Full text of hazard classes and H-statements : see section 16

# **SECTION 4: First-aid measures**

# 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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## 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

# 4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

### **SECTION 5: Fire-fighting measures**

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

## 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : None known.

Incompatible materials : Sources of ignition. Direct sunlight.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Methylene Blue (61-73-4)
Not applicable
Codium Dhoonbata Manabasia Anhudraua /7550 00 7\

# Sodium Phosphate, Monobasic, Anhydrous (7558-80-7)

Not applicable

Sulfuric Acid (7664-93-9)		
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³ (Thoracic fraction)
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³

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Sulfuric Acid (7664-93-9)		
IDLH US IDLH (mg/m³) 15 mg/m³		15 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³
Water (7732-18-5)		
Not applicable		

#### 8.2. **Appropriate engineering controls**

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential

# Individual protection measures/Personal protective equipment

## Personal protective equipment:

Safety glasses.



#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

# Respiratory protection:

Respiratory protection not required in normal conditions

# Other information:

Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

9.1.	Information on basic physica	Il and chemical properties
Physica	al state	: Liquid
Color		: Blue
Odor		: None.

Odor threshold : No data available Hq : No data available Melting point No data available Freezing point : No data available Boiling point : No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available

Specific gravity / density : 1 g/ml

Solubility : Soluble in water. Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available

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Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

No data available.

# 10.6. Hazardous decomposition products

Sulfur compounds. Phosphorus oxides.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact Acute toxicity : Not classified

Methylene Blue (61-73-4)	
LD50 oral rat	1180 mg/kg (Rat)
ATE US (oral)	1180 mg/kg body weight

Sodium Phosphate, Monobasic, Anhydrous (7558-80-7)	
LD50 oral rat	8290 mg/kg
ATE US (oral)	8290 mg/kg body weight

Sulfuric Acid (7664-93-9)	
LD50 oral rat	2140 mg/kg body weight (Rat, Experimental value)
ATE US (oral)	2140 mg/kg body weight
Water (7732-18-5)	
- DEC	

LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000 mg/kg body weight
Skin corrosion/irritation	: Not classified

Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Sulfuric Acid (7664-93-9)		
	Additional information	Strong inorganic acid mists containing sulfuric acid are carcinogenic to humans
	National Toxicology Program (NTP) Status	2 - Known Human Carcinogens

Reproductive toxicity : Not classified Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated : Not classified

exposure

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Aspiration hazard : Not classified

Potential Adverse human health effects and

: Based on available data, the classification criteria are not met.

symptoms

# SECTION 12: Ecological information

# 12.1. Toxicity

Methylene Blue (61-73-4)	
LC50 fish 1	18 mg/l (96 h, Mystus vittatus)
EC50 Daphnia 1	2.26 mg/l (48 h, Daphnia magna)

Sulfuric Acid (7664-93-9)	
LC50 fish 1	42 mg/l (96 h, Gambusia affinis)
EC50 Daphnia 1	29 mg/l (24 h, Daphnia magna)

# 12.2. Persistence and degradability

Methylene Blue Reagent, for Surfactants	
Persistence and degradability	Not established.
Methylene Blue (61-73-4)	
Persistence and degradability	Biodegradability in water: no data available.
Sodium Phosphate, Monobasic, Anhydrous (7558-80-7)	
Persistence and degradability	Not established.
Sulfuric Acid (7664-93-9)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Water (7732-18-5)	
Persistence and degradability	Not established.

# 12.3. Bioaccumulative potential

Methylene Blue Reagent, for Surfactants		
Bioaccumulative potential	Not established.	
Methylene Blue (61-73-4)		
Log Pow	5.85 (Estimated value)	
Bioaccumulative potential	Not bioaccumulative.	
odium Phosphate, Monobasic, Anhydrous (7558-80-7)		
Bioaccumulative potential	Not established.	
Sulfuric Acid (7664-93-9)		
Log Pow	-2.2 (Estimated value)	
Bioaccumulative potential	Not bioaccumulative.	
Water (7732-18-5)		
Bioaccumulative potential	Not established.	

# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

Other information : Avoid release to the environment.

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#### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Sulfuric Acid CAS-No. 7664-93-9 0.68%

Sulfuric Acid (7664-93-9)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation

## 15.2. International regulations

#### **CANADA**

#### Methylene Blue (61-73-4)

Listed on the Canadian DSL (Domestic Substances List)

# Sodium Phosphate, Monobasic, Anhydrous (7558-80-7)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

# **National regulations**

#### Methylene Blue (61-73-4)

Listed on the Canadian IDL (Ingredient Disclosure List)

# Sodium Phosphate, Monobasic, Anhydrous (7558-80-7)

Not listed on the Canadian IDL (Ingredient Disclosure List)

# Sulfuric Acid (7664-93-9)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

# 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

Revision date : 05/15/2018 Other information : None.

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Full text of H-phrases: see section	າ 16:
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	H302	Harmful if swallowed	
	H314	Causes severe skin burns and eye damage	
	H318	Causes serious eye damage	
	H401	Toxic to aquatic life	

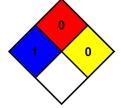
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause
	significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : B

B - Safety glasses, Gloves

#### SDS US LabChem

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