

# **Material Safety Data Sheet**

Date Printed: 05/24/2005 Date Updated: 04/07/2004 Version 1.10

#### Section 1 - Product and Company Information

**Product Name** Product Number Brand

**Bradford Reagent** B6916 Sigma Chemical

Company Street Address City, State, Zip, Country Technical Phone:

Sigma-Aldrich 3050 Spruce Street SAINT LOUIS, MO 63103 US

314 771 5765 800 325 5052

**Emergency Phone:** 

414 273 3850 Ext. 5996

### Section 2 - Composition/Information on Ingredient

Substance Name	CAS#	SARA 313	EC no Annex I In Numbe	
BRADFORD REAGENT	None	Yes	Numbe	
Ingredient Name BRILLIANT BLUE G PHOSPHORIC ACID METHANOL	<u>CAS #</u> None 7664-38-2 67-56-1	Percent 0.004 % 10.000 % 4.000 %	SARA 313 No Yes Yes	

#### Formula Synonyms

#### Section 3 - Hazards Identification

#### **Emergency Overview**

Corrosive.

Causes burns. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin, and if swallowed. Target organ(s): Liver. Eyes.

**HMIS Rating** 

Health: 3\* Flammability: 0 Reactivity: 0

NFPA Rating

Flammability: 0 Health: 3

Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

#### Section 4 - First Aid Measures

#### **Oral Exposure**

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

#### Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### **Dermal Exposure**

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### Eve Exposure

in case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

# Section 5 - Fire Fighting Measures

**Autoignition Temp:** 

**Extinguishing Media** 

Suitable

Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

**Protective Equipment** 

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

### Section 6 - Accidental Release Measures

# Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

# Methods for Cleaning Up

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

# Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### Storage

Suitable

Keep tightly closed. Store at 2-8°C

#### Section 8 - Exposure Controls / PPE

#### **Engineering Controls**

Safety shower and eye bath. Use only in a chemical fume hood.

### Personal Protective Equipment

Respiratory

Government approved respirator.

Hand

Compatible chemical-resistant gloves.

Chemical safety goggles.

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#### Other

Faceshield (8-inch minimum).

# **General Hygiene Measures**

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

# Section 9 - Physical/Chemical Properties

# Appearance

**Physical State** 

Clear liquid

Molecular Weight: N/A

рΗ N/A BP/BP Range N/A MP/MP Range N/A Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density N/A **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A Water Content N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient N/A Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A Flammability N/A Autoignition Temp N/A

# N/A = not available

#### Section 10 - Stability and Reactivity

N/A

#### Stability

Solubility

Materials to Avoid

Strong bases, Finely powdered metals.

#### **Hazardous Decomposition Products**

**Hazardous Decomposition Products** 

Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

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# **Hazardous Polymerization**

Hazardous Polymerization

Will not occur.

# Section 11 - Toxicological Information

#### Route of Exposure

Skin Contact

Causes burns.

Skin Absorption

Harmful if absorbed through skin.

**Eve Contact** 

Causes burns.

Inhalation

Harmful if Inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion

Harmful if swallowed.

#### Target Organ(s) or System(s)

Liver. Eyes. Blood. Bone marrow. Kidneys. Heart. Central nervous system.

# Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. May cause cyanosis (blue-gray coloring of skin and lips caused by lack of oxygen).

RTECS Number: N/A

# Section 12 - Ecological Information

No data available.

# Section 13 - Disposal Considerations

#### Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state, and local environmental regulations.

# Section 14 - Transport Information

#### DOT

Proper Shipping Name: Phosphoric acid

UN#: 1805

Class: 8

Packing Group: Packing Group III

Hazard Label: Corrosive

PIH: Not PIH

#### IATA

Proper Shipping Name: Phosphoric acid, liquid IATA UN Number: 1805

Hazard Class: 8

Packing Group: III

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# **EU Additional Classification**

Symbol of Danger: C

Indication of Danger

Corrosive.

Risk Statements

R: 34 20/21/22 68/20/21/22

Causes burns. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through

inhalation, in contact with skin, and if swallowed. S: 26 36/37/39 45

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where

#### US Classification and Label Text

Indication of Danger

Corrosive

**Risk Statements** 

Causes burns. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin, and if swallowed

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US Statements

Target organ(s): Liver. Eyes.

# United States Regulatory Information

SARA Listed: Yes

Notes: This product is or contains a component that is subject to SARA313 reporting requirements.

# Canada Regulatory Information WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information

required by the CPR.

DSL: No

NDSL: No

#### Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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