

# Hardy Diagnostics

## Safety Data Sheet

### 1. Product And Company Identification

#### 1.1. Product identifiers

Product Name: **Methylene Blue, Loeffler**

Other Common Names: None

Catalog Number: Z88

#### 1.2. Recommended use

Used to examine metachromatic granules in *C. diphtheriae*, screening bacteria in CSF, or for enumeration of fecal leukocytes.

#### Details of the supplier of this Safety Data Sheet

Company: Hardy Diagnostics  
 1430 West McCoy Lane  
 Santa Maria, CA 93455

Telephone: (805) 346-2766

(800) 266-2222

Emergency Phone: (800) 424-9300 ChemTrec (24hr service)


### 2. Hazards Identification

#### 2.1. Classification of substance or mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS)

**Flammable Liquid (Category 3), H226**

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

|                                  |   |
|----------------------------------|---|
| <b>Pictogram:</b>                |                            |
| <b>Signal Word:</b>              | <b>Warning</b>  |
| <b>Hazard Statements:</b>        |   |
| H226                             | Flammable liquid and vapor.   |
| <b>Precautionary Statements:</b> |   |
| P210                             | Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.               |
| P233                             | Keep container tightly closed.  |
| P240                             | Ground and bond container and receiving equipment.  |
| P241                             | Use explosion-proof equipment.  |
| P242                             | Use non-sparking tools.   |
| P243                             | Take action to prevent static discharges.   |
| P280                             | Wear protective clothing.   |
| P303+P361+P353                   | IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower.                  |
| P370+P378                        | In case of fire: Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.                   |
| P403+P235                        | Store in a well-ventilated place. Keep cool.  |
| P501                             | Dispose of contents or container at an approved waste disposal facility, according to applicable regulations. |

2.3. **Hazards not otherwise classified or not covered by GHS**

No data available.

### 3. **Composition/Information on Ingredients**

3.1. **Mixtures**

Hazardous components:

| <b>Substance:</b>               | <b>Concentration:</b> | <b>Hazard Information:</b> |
|---------------------------------|-----------------------|----------------------------|
| Ethyl Alcohol<br>(CAS# 64-17-5) | 23.0%                 | Flammable Liquid 3         |

### 4. **First Aid Measures**

4.1. **Description of first aid measures**

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | If inhaled, remove to fresh air. If not breathing, give artificial respiration and immediately seek medical attention.  |
| <b>Ingestion:</b>    | Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical advice immediately. |
| <b>Skin Contact:</b> | Wash off with soap and water. Consult a physician.  |
| <b>Eye Contact:</b>  | Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.   |

4.2. **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3. **Indication of any immediate medical attention and special treatment needed**

No data available.

### 5. **Firefighting Measures**

5.1. **Extinguishing media**

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

5.2. **Special hazards arising from the substance or mixture**

Carbon oxides.

5.3. **Advice for firefighters**

In the event of a fire, wear protective clothing and NIOSH-approved breathing apparatus necessary to prevent any possible irritation.

5.4. **Further information**

No data available.

### 6. **Accidental Release Measures**

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

Wear protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Keep unprotected persons away. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions**

No data available.

## 6.2. Methods and materials for containment and cleaning up

Remove all sources of ignition. Ventilate area of leak or spill. Recover spill or leak with inert material such as vermiculite or sand. Contain recovered material in a suitable receptacle.

## 6.3. Reference to other sections

For disposal, see section 13.

# 7. Handling and Storage

## 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No smoking. Take measures to prevent the build-up of electrostatic charge.

**CAUTION:** High concentrations may be ignitable.

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

Keep container tightly closed. Store away from all sources of ignition. Store in a cool, dry, well-ventilated place in accordance with specified storage conditions.

## 7.3. Specific end uses

Apart from uses mentioned in section 1.2, not other specific uses are stipulated.

# 8. Exposure Controls/Personal Protection

## 8.1. Control parameters

| Component | CAS #   | Value  | Control Parameters                   | Basis                                   |
|-----------|---------|--|--------------------------------------|---|
| Ethanol   | 64-17-5 | TWA  | 1,000 ppm                            | USA ACGIH Threshold Limit Values        |
|           | Remarks | Upper Respiratory Tract irritation<br>Confirmed animal carcinogen with unknown relevance to humans |                                      |   |
|           |         | TWA  | 1,000 ppm<br>1,900 mg/m <sup>3</sup> | USA Occupational Exposure Limits (OSHA) |
|           |         | The value in mg/m <sup>3</sup> is approximate.   |                                      |   |
|           |         | TWA  | 1,000 ppm<br>1,900 mg/m <sup>3</sup> | USA NIOSH Recommended Exposure Limits.  |

## 8.2. Appropriate engineering controls

Safety shower and eye bath. Mechanical exhaust recommended.

## 8.3. Personal protective equipment

|                         |                            |
|-------------------------|----------------------------|
| <b>Eye/Face:</b>        | Safety goggles.            |
| <b>Skin:</b>            | Chemical resistant gloves. |
| <b>Respiratory:</b>     | None for normal use.       |
| <b>Thermal Hazards:</b> | None for normal use.       |

## 9. **Physical and Chemical Properties**

### 9.1. **Information on basic physical and chemical properties**

|  |  |
|--|--|
| Appearance:                              | Physical State: Liquid<br>Color: Dark Royal Blue |
| Odor:                                    | Alcohol smell                                    |
| Odor Threshold:                          | Not Determined                                   |
| pH:                                      | Not Determined                                   |
| Melting/Freezing Point:                  | Not Determined                                   |
| Boiling Point:                           | Not Determined                                   |
| Flash Point:                             | 29° C (84° F) – closed cup                       |
| Evaporation Rate:                        | Not Determined                                   |
| Flammability:                            | Not Determined                                   |
| Explosion Limits:                        | Not Determined                                   |
| Vapor Pressure:                          | Not Determined                                   |
| Vapor Density:                           | Not Determined                                   |
| Relative Density:                        | Not Determined                                   |
| Water Solubility:                        | Soluble  |
| Partition coefficient (n-octanol/water): | Not Determined                                   |
| Auto-ignition Temperature:               | Not Determined                                   |
| Decomposition Temperature:               | Not Determined                                   |
| Viscosity:                               | Not Determined                                   |
| Explosive Properties:                    | Not Determined                                   |
| Oxidizing Properties:                    | Not Determined                                   |

### 9.2. **Other safety information**

No data available.

## 10. **Stability and Reactivity**

|   |   |
|---|---|
| <b>Reactivity</b>                         | No data available.                              |
| <b>Chemical stability</b>                 | This product is stable.                         |
| <b>Possibility of hazardous reactions</b> | Vapors may form explosive mixture with air.     |
| <b>Conditions to avoid</b>                | Avoid moisture. Heat, flames, ignition sources. |
| <b>Incompatible materials</b>             | Oxidizing agents.                               |
| <b>Hazardous decomposition products</b>   | No dangerous decomposition products known.      |

## 11. **Toxicological Information**

### 11.1. **Information on toxicological effects**

|   |                   |
|---|-------------------|
| <b>Acute toxicity</b>                                     | No data available |
| <b>Skin corrosion/irritation</b>                          | No data available |
| <b>Serious eye damage/eye irritation</b>                  | No data available |
| <b>Respiratory or skin sensitization</b>                  | No data available |
| <b>Germ cell mutagenicity</b>                             | No data available |
| <b>Carcinogenicity</b>                                    | No data available |
| <b>Reproductive toxicity</b>                              | No data available |
| <b>Specific target organ toxicity – single exposure</b>   | No data available |
| <b>Specific target organ toxicity – repeated exposure</b> | No data available |
| <b>Aspiration Hazard</b>                                  | No data available |

|                               |                    |
|-------------------------------|--------------------|
| <b>Additional information</b> | No data available. |
|-------------------------------|--------------------|

## 12. **Ecological Information**

|   |  |
|---|--|
| <b>Ecotoxicity</b>                        | No data available  |
| <b>Persistence and degradability</b>      | No data available  |
| <b>Bioaccumulative potential</b>          | No data available  |
| <b>Mobility in soil</b>                   | Phenol: 1.47 (log Pow)<br>Ethyl Alcohol: -0.32 (log Pow) |
| <b>Results of PBT and vPvB assessment</b> | No data available  |
| <b>Other adverse effects</b>              | No data available  |

## 13. **Disposal Considerations**

### 13.1. **Waste disposal**

Dispose of in accordance with applicable state and federal regulations.

Disposal must be in accordance with regulations 40 CFR 261.

## 14. **Transport Information**

|                              |                           |
|------------------------------|---------------------------|
| <b>DOT hazard class</b>      | Class 3: Flammable Liquid |
| <b>Shipping name</b>         | Ethanol                   |
| <b>Identification number</b> | UN1170                    |
| <b>Packing group</b>         | II                        |

## 15. **Regulations**

|                        |               |
|------------------------|---------------|
| <b>Carcinogenicity</b> | <b>Yes/No</b> |
| NTP:                   | No            |
| IARC:                  | No            |
| OSHA:                  | No            |
| California Prop 65:    | No            |
| IATA:                  | No            |

## 16. **Other Information**

The above information, to the best of our knowledge, is accurate. Hardy Diagnostics assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.