

# Hardy Diagnostics

## Safety Data Sheet

### 1. Product And Company Identification

#### 1.1. Product identifiers

Product Name: **Flagella Stain**

Other Common Names: None

Catalog Number: Z87

#### 1.2. Recommended use

For use in detecting the presence and arrangement of flagella on the bacterial cell.

#### 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 2), H225**

**Skin Corrosion (Category 1B), H314**

**Serious Eye Damage (Category 1), H318**


**Germ Cell Mutagenicity (Category 2), H341**

**Specific Target Organ Toxicity – single exposure (Category 2), H371**

**Acute Aquatic Toxicity (Category 3), H402**

**Chronic Aquatic Toxicity (Category 3), H412**

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

<b>Pictogram:</b>	
<b>Signal Word:</b>	<b>Danger</b>
<b>Hazard Statements:</b>	
H225	Highly flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H371	May cause damage to organs.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
<b>Precautionary Statements:</b>	
P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
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.
P260	Do not breathe vapors.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, and face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311+P313	IF exposed or concerned: Get medical attention.
P310	Immediately call a POISON CENTER.
P321	Specific treatment (see supplemental first aid instruction on this label).
P361+P363	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
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:

Substance:	Concentration:	Hazard Information:
Ethyl Alcohol (CAS# 64-17-5)	10%	Flammable Liquid 2
Tannic Acid (CAS# 1401-55-4)	10%	Acute Aquatic Toxicity 3, Chronic Aquatic toxicity 3
Phenol (CAS# 108-95-2)	2.4%	Skin Corrosion 1B, Eye Damage 1, Germ Cell

		Mutagenicity 2, Single Target Organ Toxicity 2, Acute Aquatic Toxicity 3, Chronic Aquatic Toxicity 2
--	--	---

#### **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>	Immediately wash thoroughly with soap and water. If irritation persists, consult a physician.
<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. If irritation persists, 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**

No data available.

##### **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: chemical resistant gloves. Keep unprotected persons away.

##### **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**

Protect against physical damage. Wear appropriate personal protective equipment.

**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**

No data available.

**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 Color: Blue-violet
Odor:	Alcohol smell
Odor Threshold:	Not Determined
pH:	Not Determined
Melting/Freezing Point:	Not Determined
Boiling Point:	Not Determined
Flash Point:	Not Determined
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>	No data available.
<b>Conditions to avoid</b>	No data available.
<b>Incompatible materials</b>	Heat, flames, ignition sources.
<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

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Phenol	EC50 96h 150 mg/ml	Not listed.	EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min	EC50 48 h 23.0 mg/L LC50 48 h 13 mg/L EC50 48 h 23.0 mg/L
Ethyl Alcohol	Not listed.	Leucidus idus: LC50 = 8.14 mg/L/48h	Photobacterium phosphoreum: EC50 = 34634 mg/L/30 min Photobacterium phosphoreum: EC50 = 35470 mg/L/5 min	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h

<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) 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.

Revision Date: 12/26/18

**HARDY DIAGNOSTICS**  
 1430 West McCoy Lane, Santa Maria, CA 93455, USA  
 Phone: (805) 346-2766 ext. 5658  
 Fax: (805) 346-2760  
 Website: [www.HardyDiagnostics.com](http://www.HardyDiagnostics.com)  
 Email: TechService@HardyDiagnostics.com

Distribution Centers:  
 California · Washington · Utah · Arizona · Texas · Ohio · New York · Florida · North Carolina

