

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 3), H226

Skin Corrosion (Category 2), H315

Serious Eye Damage (Category 2), H318


Germ Cell Mutagenicity (Category 2), H341

Carcinogenicity (Category 1), H351

Specific Target Organ Toxicity – single exposure (Category 3), H371

Specific Target Organ Toxicity – repeated exposure (Category 2), H373

2.2. GHS Label elements, including precautionary statements

Pictogram:	
Signal Word:	Danger
Hazard Statements:	
H226	Flammable liquid and vapor.
H315	Causes skin irritation
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:	
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.
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated areas.
P280	Wear protective gloves, protective clothing, and face protection.
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.
P337+P313	If eye irritation persists: Get medical advice/attention
P308+P311+P313	IF exposed or concerned: Get medical attention.
P314	Call a POISON CENTER/doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water
P321	Specific treatment (see supplemental first aid instruction on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention
P262+P364	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.
P403+P235+P233	Store in a well-ventilated place. Keep cool. Keep container tightly closed.
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)	7.6%	Flammable Liquid 3, Eye Damage 2, Carcinogenicity 1
Phenol (CAS# 108-95-2)	2.1%	Skin Corrosion 2, Eye Damage 2, Germ Cell Mutagenicity 2, Specific Target Organ Toxicity Single Exposure 3, Specific Target Organ Toxicity Repeated Exposure 2,

4. First Aid Measures

4.1. Description of first aid measures

Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration and immediately seek medical attention.
Ingestion:	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.
Skin Contact:	Immediately wash thoroughly with soap and water. If irritation persists, consult a physician.
Eye Contact:	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**
 Ensure adequate ventilation. Wear protective equipment: chemical resistant gloves. Keep unprotected persons away.
- 6.2. **Environmental precautions**
 Should not be released into the environment.
- 6.3. **Methods and materials for containment and cleaning up**
 Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- 6.4. **Reference to other sections**
 For disposal, see section 13.

7. Handling and Storage

- 7.1. **Precautions for safe handling**
 Ensure adequate ventilation. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges. **CAUTION:** High concentrations may be ignitable.
- 7.2. **Conditions for safe storage, including any incompatibilities**
 Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks and flame. Keep containers tightly closed in a cool, well-ventilated place. Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Strong acids. Bases. Reducing Agent. Oxidizing agent.
- 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**

Eye/Face:	Safety goggles.
Skin:	Chemical resistant gloves.
Respiratory:	None for normal use.
Thermal Hazards:	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

Reactivity	No data available.
Chemical stability	This product is stable.
Possibility of hazardous reactions	No data available.
Conditions to avoid	No data available.
Incompatible materials	Heat, flames, ignition sources.
Hazardous decomposition products	No dangerous decomposition products known.

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity – single exposure	No data available
Specific target organ toxicity – repeated exposure	No data available
Aspiration Hazard	No data available
Additional information	No data available.

12. Ecological Information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Phenol	EC50: 0.0188 - 0.1044 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: 187 - 279 mg/L, 72h static (Desmodesmus subspicatus) EC50: = 46.42 mg/L, 96h (Pseudokirchneriella subcapitata)	4-7 mg/L LC50 96 h 32 mg/L LC50 96 h	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: 10.2 - 15.5 mg/L, 48h(Daphnia magna) EC50: 4.24 - 10.7 mg/L, 48hStatic (Daphnia magna)
Ethyl Alcohol	EC50 (72h) = 275 mg/l (Chlorella vulgaris)	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h	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

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

DOT hazard class	Class 3: Flammable Liquid
Shipping name	Ethanol
Identification number	UN1170
Packing group	II

15. Regulations

Carcinogenicity	Yes/No
NTP:	No
IARC:	No
OSHA:	No
California Prop 65:	Yes
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.

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HARDY DIAGNOSTICS

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