Hardy Diagnostics

Safety Data Sheet

1. Product And Company Identification

1.1. **Product identifiers**

Product Name: **Ninhydrin Reagent**
Other Common Names: None
Catalog Number: Z70

1.2. **Recommended use**

For use in rapid determination of sodium hippurate hydrolysis reactions in bacteria.

1.3. **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
Acute Toxicity, Oral (Category 4), H302
Skin Corrosion (Category 2), H315
Eye Damage (Category 2A), H319
Single Target Organ Toxicity (Category 3), H335 & H336

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

Pictogram:	
Signal Word:	**Danger**
Hazard Statements:	
H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
Precautionary Statements:	
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P235	Keep cool.
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 vapors.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, and eye protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER if you feel unwell.
P302+P352	IF ON SKIN: Rinse skin with water.
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.
P321	Specific treatment (see supplemental first aid instruction on this label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice.
P337+P313	If eye irritation persists: Get medical attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.
P403+P233+P235	Store in a well-ventilated place. Keep container tightly closed. 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:**
Acetone (CAS# 67-64-1)	48.25%	Skin Irritation 2, Eye Irritation 2, Single Target Organ Toxicity 3, Flammable Liquid 2
1-Butanol (CAS# 71-36-3)	48.25%	Acute Oral Toxicity 4, Skin Irritation 2, Eye Irritation 2, Single Target Organ Toxicity 3, Flammable Liquid 3
Ninhydrin (CAS# 485-47-2)	3.5%	Acute Oral Toxicity 4, Skin Irritation 2, Eye Irritation 2, Single Target Organ Toxicity 3

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**
Wear protective equipment as indicated in Section 8. 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**

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: Clear, colorless to light yellow
Odor:	Pungent, 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

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
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	Alcohol, n.o.s.
Identification number	None
Packing group	II

15. Regulations

Carcinogenicity	**Yes/No**
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.