

1: Identification of substance / mixture

1. Product Identifier

Mixture

Product Name **Ultra Ninhydrin Solution**
Product Code 80-2117-64
CAS Number
Other Names 5056336800130
IUPAC
MFCD Number
EC/EINECS
REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development, In Vitro Diagnostic

3. Details of the supplier of the safety data sheet

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Waterbeach
Cambridge
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4. Emergency telephone number

+44 (0)1223 427890 -

2. Hazards Identification

1. Classification of the substance or mixture

H226	Flam. Liq. 3	
H302	Acute Tox. 4	
H311 + H331	Acute Tox. 3	
H361d	Repr. 2	
H370	STOT SE 1	

2. Label elements

Signal Word **Danger**



Hazard Statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311 + H331	Toxic in contact with skin or if inhaled
H361d	Suspected of damaging the unborn child
H370	Causes damage to organs (eyes).

Precautionary Phrases

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

P370 + P378	In case of fire: Use water for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to a suitable hazardous waste container.

3. Other Hazards

May be fatal or cause blindness if swallowed.
 Cannot be made non-poisonous.

3. Composition / Information on Ingredients

2. Mixtures

Product Name	Hazards	Concentration
Methanol		
CAS Number: 67-56-1 EC/EINECS: 200-659-6	H225, H301 + H311 + H331, H370 Acute Tox. 3, Flam. Liq. 2, STOT SE 1	9%
Ninhydrin		
CAS Number: 485-47-2 EC/EINECS: 207-618-1	H302, H315, H319, H335 Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, STOT SE 3	8%
Diethylene glycol methyl ether		
CAS Number: 111-77-3 EC/EINECS: 203-906-6	H361d Repr. 2	46.4%
Ethylene glycol		
CAS Number: 107-21-1 EC/EINECS: 203-473-3	H302 Acute Tox. 4	36%
Hydrindantin		
CAS Number: 5950-69-6 EC/EINECS: 225-823-4		0.6%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
<i>Eye Contact</i>	Bathe the eye with running water for 15 minutes.
<i>Ingestion</i>	Do not induce vomiting. Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2. Most important symptoms and effects

No symptoms.

3. Indication of any immediate medical attention

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

5. Firefighting measures

1. Extinguishing Media

<i>Suitable</i>	P370 + P378: In case of fire: Use water for extinction.
<i>Unsuitable</i>	N/A

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form.

3. Advice for Fire Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. Accidental Release Measures

1. Personal Precautions

Eliminate all sources of ignition.
Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Avoid breathing vapours.

2. Environmental Precautions

Do not allow to enter sewers / surface or ground water.

3. Methods & Materials

Mix with sand or vermiculite.
Wash the spillage site with large amounts of water.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

None

7. Handling and Storage

1. Personal Precautions

Safe Handling Handle in a fume hood.
Avoid direct contact with the substance.
P201: Obtain special instructions before use.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Protection against explosions and fires P363: Wash contaminated clothing before reuse.
Keep ignition sources away

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.
Keep away from sources of ignition.
Keep container tightly closed.
Light sensitive.
Protect from light.
Air sensitive.

Storage Controls

Maintaining Integrity P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Other advice

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
No further information available.

3. Specific End Uses

The substance is supplied for Research and Development and In Vitro Diagnostic purposes by professionals only. To be used with Biochrom Amino Acid Analyzers

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	P280: Wear protective gloves/protective clothing/eye protection/face protection.
<i>Engineering measures</i>	Ensure there is sufficient ventilation of the area.
<i>Eye / Face Protection</i>	Safety Glasses. Ensure eye bath is to hand.
<i>Hand protection</i>	Nitrile gloves.
<i>Respiratory protection</i>	P260: Do not breathe dust/fume/gas/mist/vapours/spray. Respiratory protection not required.
<i>Skin protection</i>	Protective clothing.
<i>Other personal protection advice</i>	No data.

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Yellow to light green Liquid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	39°C
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	1.05g/mL
Solubility(ies):	Water soluble
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No unusual reactivity

2. Stability

Stable under normal conditions.
May discolour on exposure to light.

3. Possibility of Hazardous Reactions

No hazardous reactions known.

4. Conditions to Avoid

Direct Sunlight.

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	No information available
<i>Skin corrosion/irritation</i>	May be harmful if absorbed through the skin. Causes skin irritation.
<i>Serious eye Damage/irritation</i>	Irritant effect.
<i>Respiratory or skin sensitisation</i>	May cause skin sensitization
<i>Germ Cell mutagenicity</i>	No information available
<i>Carcinogenicity</i>	No information available
<i>Reproductive toxicity</i>	Possible risk of harm to the unborn child
<i>STOT-single exposure</i>	No information available
<i>STOT-repeated exposure</i>	No information available
<i>Aspiration hazard</i>	No information available

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

No information available

2. Persistence and degradability

No information available

3. Bio-Accumulative Potential

No information available

4. Mobility and Soil

No information available

5. Results of PBT & vPvB assessment

No information available

6. Other adverse effects

No information available

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. **UN Number:** 1992
2. **Shipping Name:** Flammable liquid, toxic, n.o.s.
3. **Transport hazard class(es):** : 3 Sub Class : 6.1



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Road (ADR)

1. **UN Number:** 1992
2. **Shipping Name:** FLAMMABLE LIQUID, TOXIC, N.O.S (Ultra Ninhydrin Solution).
3. **Transport hazard class(es):** : 3 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Sea (IMDG)

1. **UN Number:** 1992
2. **Shipping Name:** Flammable liquid, toxic, n.o.s.
3. **Transport hazard class(es):** : 3 Sub Class : 6.1



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:** IBCINS: IBC03

TANKPROV: TP1, TP28

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

This safety data sheet complies to the requirements of Regulation (EC) No. 1272/2008

3. Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text.

