

1: Identification of substance / mixture

1. Product Identifier

Mixture

Product Name **EZ Nin Reagent (2L)**
Product Code 80-6000-12
CAS Number
Other Names
IUPAC
MFCD Number
EC/EINECS
REACH Number

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

Research and Development

3. Details of the supplier of the safety data sheet

Biochrom Ltd
22 Cambridge Science Park, Milton Road
Cambridge



CB4 0FJ
United Kingdom

Telephone: +44 (0)1223 423723
Fax: +44 (0)1223 420164
Email: enquiries@biochrom.co.uk

4. Emergency telephone number

+44 (0)1223 427890 -

2. Hazards Identification

1. Classification of the substance or mixture

H361 Repr. 2 R62, R63

No Resource File

2. Label elements

Signal Word **Warning**



Hazard Statements

H361 Suspected of damaging fertility or the unborn child Harmful by inhalation in contact with skin or if swallowed.

Precautionary Phrases

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container to a suitable hazardous waste container

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

No Resource File

2. Mixtures

Concentration	Product Name	CAS Number	EC/EINECS
8.0%	Potassium acetate[Non Hazardous]	127-08-2	204-822-2
6.4%	Acetic acid[Flam Liq. 3]	64-19-7	200-580-7

5.5%	Diethylene glycol methyl ether[Repr. 1A]	111-77-3	203-906-6
47.9%	Ethylene glycol[Acute Tox. 4]	107-21-1	203-473-3
29.5%	Water[Non Hazardous]	7732-18-5	231-791-2
1.8%	Ninhydrin[Acute Tox. 4]	485-47-2	207-618-1
0.9%	Potassium formate[Non Hazardous]	590-29-4	209-677-9

4. First Aid Measures

1. Description of first aid measures

- Skin Contact* Wash immediately with plenty of soap and water.
- Eye Contact* Bathe the eye with running water for 15 minutes.
- Ingestion* Do not induce vomiting.
Wash out mouth with water.
Consult a doctor.
- Inhalation* Supply fresh air; consult a doctor in case of complaints.

2. Most important symptoms and effects

P308 + P313: IF exposed or concerned: Get medical advice/attention.

3. Indication of any immediate medical attention

Obtain medical attention in the event of any acute or delayed symptoms

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Carbon dioxide.
Alcohol resistant foam.
Dry chemical powder.

Unsuitable 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

<i>Safe Handling</i>	Handle in fume hood. Wash hands immediately after contamination. Avoid direct contact with the substance. P201: Obtain special instructions before use.
<i>Protection against explosions and fires</i>	P202: Do not handle until all safety precautions have been read and understood. Keep ignition sources away

2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Keep away from direct sunlight.
<i>Storage Controls</i>	No special requirements
<i>Maintaining Integrity</i>	No special requirements
<i>Other advice</i>	P405: Store locked up.

3. Specific End Uses

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

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	P281: Use personal protective equipment as required. Avoid contact with skin and eyes
<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>	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	Clear yellow
Odour	slightly vinegar
Odour threshold	No Data Available
PH	5
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
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	1.124g/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	Not oxidizing

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.
Heat.

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:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :

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

Road (ADR)

1. **UN Number:**
2. **Shipping Name:** None Hazardous
3. **Transport hazard class(es):** : Sub Class :

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

Sea (IMDG)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :

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

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. 1907/2006

2. Associated risk phrases according to european directive 67/548/EEC

R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.



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.