1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: MemGold 2 / MemGold 2 HT-96
Product number: MD1-63 / MD1-64
Company: Molecular Dimensions Limited
Unit 6 Goodwin Business Park
Willie Snaith Road
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Suffolk
CB8 7SQ
Telephone: 01638 561051
Fax: 01638 782611
Email address: enquiries@moleculardimensions.com

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Flammable.
Very toxic to aquatic organisms.
May cause cancer.
Irritating to eyes, respiratory system and skin.
Causes severe burns.
Harmful to aquatic organisms
Contact with combustible material may cause fire
Harmful by inhalation.
Vapours may cause drowsiness and dizziness.
May cause sensitisation.
Irritating to respiratory system.
Possible risk of harm to the unborn child.

3. COMPOSITION/INFORMATION ON INGREDIENTS.

<table>
<thead>
<tr>
<th>Reagent</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Reagent</th>
<th>CAS-No.</th>
<th>EC-No.</th>
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<tr>
<td>ADA</td>
<td>26239-55-4</td>
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<td>Ammonium formate</td>
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<td>231-764-5</td>
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<td>Ammonium thioctciante</td>
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<td>Potassium nitrate</td>
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<td>Sodium thiocyanate</td>
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</tbody>
</table>

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1 of 3
4. FIRST AID MEASURES

If inhaled
Move person into fresh air. If breathing becomes difficult call a physician

In case of skin contact
Immediately wash skin with soap and copious amounts of water.

In case of eye contact
Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

If swallowed
Wash out mouth with water provided the person is conscious. Call a physician.

5. FIRE-FIGHTING METHODS

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazard(s)
Emits toxic fumes when burnt.

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective clothing

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Minimise direct contact with skin or eyes and prevent inhalation of dust.

Environmental precautions
Do not let product enter drains

Methods for cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal. Avoid raising dust. Ventilate area and wash spill site.

7. HANDLING AND STORAGE

Handling
Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage
Store in a cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Wear protective gloves

Eye protection
Safety glasses

Hygiene measures
General industrial hygiene practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
liquid

Form

Safety data

pH
varying due to pack contents

Melting point
varying due to pack contents

Boiling point
varying due to pack contents

Flash point
varying due to pack contents

Ignition temperature
varying due to pack contents

Lower explosion limit
varying due to pack contents

Upper explosion limit
varying due to pack contents

Water solubility
varying due to pack contents

10. STABILITY AND REACTIVITY

Storage stability
Stable under recommended storage conditions

Materials to avoid
Strong oxidising agents

Hazardous decomposition products
Formed under fire conditions - Carbon oxides, Nitrogen oxides.
11. TOXICOLOGICAL INFORMATION

Acute toxicity
No data available

Oxidation and corrosion
No data available

Sensitisation
No data available

Chronic exposure
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Potential health effects
- **Inhalation**: Harmful if inhaled. Can cause respiratory tract irritation.
- **Skin**: Harmful if absorbed through skin. Can cause skin irritation.
- **Eyes**: Can cause eye irritation.
- **Ingestion**: Harmful if swallowed.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability
No data available

Ecotoxicity effects
No data available

Further information on ecology
No data available

13. DISPOSAL CONSIDERATIONS

Product
Observe all EU and local environmental regulations

Contaminated packaging
Dispose of as unused product

14. TRANSPORT INFORMATION

ADR/RID
Not dangerous goods

IMDG
Not dangerous goods

IATA
Non-hazardous for air transport.

15. REGULATORY INFORMATION

Labelling according to EC Directives
Caution - substance not yet tested completely

16. OTHER INFORMATION

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Molecular Dimensions Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product.

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