1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers
   
   Product Name: Omni-Mag™ Paramagnetic Particles (PMP)
   
   Product Number: 40-4118-XX
   
   Brand: Gene Link

1.2 Relevant identified uses of the substance or mixture and uses advised against

   Identified Uses: DNA & RNA Extraction Kit component.

1.3 Details of the supplier of the safety data sheet

   Company: Gene Link, Inc. 190 Saw Mill River Road
   
   Hawthorne, NY 10532, USA
   
   Telephone: +1 914-769-1192
   
   Email: support@genelink.com

1.4 Emergency telephone number

   Emergency Phone #: CHEMTREC +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

   GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
   
   Classification according to the Hazard Communication Standard (HCS)
   
   The product is not classified as hazardous according to the HCS regulation.

2.2 GHS Label elements, including precautionary statements

   Labelling according to Regulation (EC) No 1272/2008 Void
   
   Hazard pictograms Void Signal word Void Hazard statements Void Additional information:
   
   Safety data sheet available on request.
   
   Classification system: NFPA ratings (scale 0 - 4)
   
   Health = 0
   
   Fire = 0
   
   Reactivity = 0
   
   HMIS-ratings (scale 0 - 4)
   
   Health= 0
   
   Fire= 0
   
   Reactivity = 0
   
   OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable
   
   Target Organ(s): Not applicable or unknown.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

   This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1 **Substances**

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>EC-No. (EINECS-No.)</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guanidinium thiocyanate</td>
<td>593-84-0</td>
<td>209-812-1</td>
<td>Xn R20/21/22, R32, R52/53, Harmful</td>
<td>1-10%</td>
</tr>
<tr>
<td>Iron (III) Oxide, diiron trioxide</td>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
<td>5-10%</td>
</tr>
</tbody>
</table>

4. **FIRST AID MEASURES**

4.1 **Description of first aid measures**

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. 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 labelling (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**

Suitable extinguishing media
Dry powder

5.2 **Special hazards arising from the substance or mixture**
None known

5.3 **Advice for firefighters**
No special advice.

5.4 **Protective equipment**
No special measures required.

6. **ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions, protective equipment and emergency procedures**
None Required

6.2 **Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 **Methods and materials for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections
No dangerous substances are released. See Section 7 for information on safe handling.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
No special requirement.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
None required.

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

a) Appearance
Form: Fluid  Color: Black Solution

b) Odour
odourless

c) Odour Threshold
no data available

d) pH
4.8 - 6.0 at 1,420 g/l at 20 °C (68 °F)

e) Melting point/freezing point
Melting point/range: 117 °C (243 °F)

f) Initial boiling point and boiling range
no data available
g) Flash point  no data available  
h) Evaporation rate  no data available  
i) Flammability (solid, gas)  no data available  
j) Upper/lower flammability or explosive limits  no data available  
k) Vapour pressure  no data available  
l) Vapour density  no data available  
m) Relative density  1.29 g/cm3 at 20 °C (68 °F)  
n) Water solubility  1,420 g/l at 20 °C (68 °F)  
o) Partition coefficient: n- octanol/water:  no data available  
p) Auto-ignition temperature:  no data available  
q) Decomposition temperature:  no data available  
r) Viscosity  no data available  
s) Explosive properties  no data available  
t) Oxidizing properties  no data available  

9.2 Other safety information
None Required

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
No further data available

10.5 Incompatible materials
No further data available

10.6 Hazardous decomposition products
No further data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity:
Based on available data, the classification criteria are not met.

Inhalation: No data available

Dermal: No data available
Skin corrosion/irritation: no data available
Serious eye damage/eye irritation
no data available
Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Not harmful to the aquatic environment

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US); IMDG; IATA
Not hazardous for transportation

UN "Model Regulation": Void

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
None of the ingredients are listed.

16. OTHER INFORMATION

NONE

Disclaimer: This MSDS has been prepared using information from sources considered technically reliable. It should not be relied upon as a product specification. The company makes no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other chemical substances. Every user of the product is responsible for evaluating its own processes and conditions of use and selecting appropriate protective measures for employee exposure.