SAFETY DATA SHEET

SECTION 1 – Product & Company Information
Product Name: Fragile X, Huntington Disease, DM, FRDA, AFF2 GScan™ Kit and Components

Company Information: Gene Link, Inc.
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Hawthorne, NY 10532, USA

SECTION 2 – Hazard Identification of the product

2.1. Classification of the substance or mixture
Combustible Liquid; H227
Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.

2.2. Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

GHS Label Pictogram

Signal Word: Warning

[Prevention]:
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P321 Specific treatment (see information on this label).

This bulletin is for your guidance and is based upon information and tests believed to be reliable. Gene Link makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages therefrom. The data are offered solely for your consideration, investigation, and verification. These suggestions should not be confused with state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, and local regulations.
SECTION 3– Composition/Information on Ingredients

Mixture of substances listed below with non-hazardous additions. Aqueous based proprietary ingredients containing synthetic nucleotides, buffers, NaCl and other non-hazardous chemicals. Contains DMSO (dimethyl sulfoxide) [CAS: 67-68-5] that can be classified as an irritant.

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethyl sulfoxide, DMSO</td>
<td>75 - 100</td>
<td>Skin Irrit. 2; H315</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0000067-68-5</td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
</tbody>
</table>

[1] Substance classified with a health or environmental hazard.
*The full texts of the phrases are shown in Section 16.

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36 Irritating to eyes.
Classification system:
The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

SECTION 4– First Aid Measures

After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Stinging and burning of the skin as well as rashes and vesicles have been seen. A heat reaction may occur if applied to wet skin. Avoid contact with DMSO solutions containing toxic material or materials whose toxicological properties are not known. DMSO easily penetrates the skin and may enhance the rate of skin absorption of skin-permeable substances. But because of DMSO's low toxicity and its inability to carry less-permeable substances with it through the skin, it can be concluded that DMSO does not pose a significant threat by skin absorption.
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: If symptoms persist seek medical attention.

SECTION 5– Fire Fighting Measures

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
SECTION 6– Accidental Release Measures
Person-related safety precautions: Not required.
Measures for environmental protection: Do not allow to enter sewers/ surface or ground water. Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

SECTION 7– Handling & Storage
No special precautions are necessary if used correctly.
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Store as labeled.

SECTION 8– Exposure Controls & Personal Protection
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Eyes: Safety glasses are considered minimum protection.
Skin: Protective gloves and clothing are required.

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000067-68-5</td>
<td>dimethyl sulfoxide, DMSO</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

SECTION 9– Physical & Chemical Properties
Solid lyophilized and colorless water based liquid.

SECTION 10– Stability & Reactivity Data
Stable product, avoid long exposure to light. Do not mix with oxidizers. No decomposition if used according to specifications. No dangerous known reactions.

SECTION 11– Toxicological Information
Irritant to eye.
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. Irritant
**Classification Category Hazard Description**

- Acute toxicity (oral) --- Not Applicable
- Acute toxicity (dermal) --- Not Applicable
- Acute toxicity (inhalation) --- Not Applicable
- Skin corrosion/irritation 2 Causes skin irritation.
- Serious eye damage/irritation 2 Causes serious eye irritation.
- Respiratory sensitization --- Not Applicable
- Skin sensitization --- Not Applicable
- Germ cell mutagenicity --- Not Applicable
- Carcinogenicity --- Not Applicable
- Reproductive toxicity --- Not Applicable
- STOT-single exposure --- Not Applicable
- STOT-repeated exposure --- Not Applicable
- Aspiration hazard --- Not Applicable

**SECTION 12– Ecological Information**

*General notes:*

- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

**SECTION 13– Disposal Considerations**

- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Disposal must be made according to official Federal and State regulations.

**SECTION 14– Transport Information**

- DOT Regulations: Non-Regulated
- Shipping Name: Non-Regulated
- IATA-DGR Regulations: NA
- Shipping Name: Non-Regulated
- RID/ADR: NA
- ADNR: ND
- OSHA Labeling Requirements: NA

**SECTION 15– Regulatory Information**

- Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA inventory.

**WHMIS Classification** B3 D2B

**Sudden Release of Pressure:** No

**Reactive:** No

**Immediate (Acute):** Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
Risk phrases:
36 Irritating to eyes.
Safety phrases:
2 Keep out of the reach of children.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
25 Avoid contact with eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46 If swallowed, seek medical advice immediately and show this container or label.
56 Dispose of this material and its container to hazardous or special waste collection point.

National regulations
Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

SECTION 16– Other Information
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases
36 Irritating to eyes.