

MATERIAL SAFETY DATA SHEET

SECTION 1 – Product & Company Information

Product Name: Fragile X GScan™ Kit and Components
Catalog No.: 40-2004-15; 40-2004-15FMS; 40-2004-15AFM; 40-2004-15B; 40-2004-15C; 40-2004-15S

Company Information: Gene Link, Inc.

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SECTION 2– Composition & Ingredient Information

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.

SECTION 3– Hazard Identification

Hazard Description: Xi Irritant. DMSO has shown very few toxic symptoms in humans. The most common are nausea, skin rashes and an unusual garlic-onion-oyster smell on body and breath.

Information concerning to particular hazards to man and environment

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.

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

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– MSDS 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

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 15– 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.
