

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

1.1 Product identifier

Product code: *FR.01*
FR.01FL

Product name: *FRAXA 1 KIT*
FRAXA 1 KIT-FL

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

Relevant identified uses: Laboratory chemicals
Use restrictions: Reserved to professional technicians

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier: *EXPERTTEAM S.r.l.*
via della Libertà 12
30175 MARGHERA VENEZIA
tel. 041 5093101
fax 041 5093102

1.4 Emergency telephone numbers

+39-2-66101029 (Centro Antiveleni di Milano)
+39-51-333333 (Centro Antiveleni di Bologna)
+39-6-3054343 (Centro Antiveleni di Roma)

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product is composed of different mixtures (see sect. 3)
Classification according to Regulation (EC) No. 1272/2008 [CLP]

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard statements: H412 Harmful to aquatic life with long lasting effects

2.3 Other hazards

see sect. 3

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is composed of different mixtures:

FMR1 MIX, AMXY MIX, FMR1 GC Buffer, 45 CGG control, Premutation allelic ladder

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Not a hazardous substance or mixture

Dangerous components

Remarks: no hazardous ingredients

FMR1 DNA polymerase

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Chronic Toxicity for aquatic environment

Dangerous components

Chemical name	N. CAS	Classification	Concentration (% w/w)
Nonidet P-40	9016-45-9 500-024-6		>=0,25-<1
Substance with an occupational exposure limit:			
Taq DNA polymerase			>=1-<10

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice Do not leave the victim unattended

Skin contact In case of contact, rinse skin with water. Immediate medical attention is not required.

Eye contact In case of contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.

Ingestion Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Rinse mouth with water.

Inhalation Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

Notes to Physician Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

Section 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

Special hazards during fire-fighting: do not allow run-off from fire fighting to enter drains or water courses

5.3 Protective equipment and indications for firefighters

Standard procedure for chemical fires.

Further information: collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.4 Additional advice

No information available.

Section 6. ACCIDENTAL RELEASE PROCEDURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the mixture. Ensure adequate ventilation. Always wear recommended personal protective equipment. Use personal protective equipment.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and material for containment and decontamination

Soak up with inert absorbent material. Dispose according to sect. 13.

6.4 Reference to other sections

Follow instructions in sections 7, 8 and 13

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: normal industrial hygiene practices. Do not eat, drink or smoke in the working area. Wash hands after using the mixture. Change contaminated clothes before moving to eating areas. Use personal protective equipment if required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for warehouse and containers: no specific protective measures required. Store the product in its original container only. Keep the container tightly sealed. Ensure proper labelling. Store at -20° C.

7.3 Specific end use(s)

Use according to IFU.

Section 8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	N. CAS	Control parameters
Taq DNA polymerase		0,00006 mg/m ³

8.2 Exposure control / Personal protection equipment

Engineering measures no data available

Respiratory protection No protective equipment required with proper use and under normal conditions.

Hand protection Wear suitable gloves. Glove material: compatible chemical-resistant gloves.

Eye protection Safety glasses.

Skin and body protection Wear suitable protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure Prevent product from entering drains. Do not allow material to contaminate ground water system.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid	
Odour	No data	
Odour threshold	No data	
Molecular Weight	No data	
pH	No data	
Melting point / melting range	°C No data	°F No data
Boiling point / boiling range	°C No data	°F No data
Flash point	°C No data	°F No data
Auto-ignition temperature	°C No data	°F No data
Decomposition temperature	°C No data	°F No data
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Upper explosion limit	No data	
Lower explosion limit	No data	
Vapour Pressure	No data	
Vapour density	No data	
Relative density	No data	
Solubility	No data	
Partition coefficient: n-octanol/water	No data	
Viscosity	No data	
Explosive properties	No data	
Oxidising properties	No data	

9.2 Other informations

No information available

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity	No dangerous reaction known under conditions of normal use.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Reacts with the following substances: alkali metals, oxidizing agents, nitriles, acid chlorides, acid anhydrides sulphur compounds, phosphorous compounds.
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible material	Materials to avoid: strong oxidizing agents.
10.6 Hazardous decomposition products	Sulphur compounds.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Not classified based on available information
Skin corrosion/irritation	Not classified based on available information
Serious eye damage/irritation	Not classified based on available information
Respiratory or skin sensitisation	Not classified based on available information
Specific target organ toxicity (STOT) – single exposure	Not classified based on available information
Specific target organ toxicity (STOT) – repeated exposure	Not classified based on available information
Carcinogenity	Not classified based on available information
Germ cell mutagenicity	Not classified based on available information
Reproductive toxicity	Not classified based on available information
Aspiration hazard	Not classified based on available information

FMR1 DNA polymerase

Components:

Nonidet P-40:

Acute oral toxicity: assessment: the component is moderately toxic after single ingestion

Taq DNA polymerase:

Acute oral toxicity: acute toxicity estimate: >5.001 mg/kg. Method: expert judgement.
Acute inhalation toxicity: acute toxicity estimate: >30 mg/l. Method: expert judgement.
Acute dermal toxicity: acute toxicity estimate: >5.001 mg/kg. Method: expert judgement.

Skin corrosion/irritation

Not classified based on available information

Components:

Nonidet P-40: remarks: rabbit skin, slight irritation.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Nonidet P-40:

Result: risk of serious damage to eyes.

Skin sensitisation

Not classified based on available information

Respiratory sensitisation

Not classified based on available information

Germ cell mutagenicity

Not classified based on available information

Carcinogenicity

Not classified based on available information

Components:

Nonidet P-40:

Remarks: 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

Reproductive toxicity

Not classified based on available information

Components:

Nonidet P-40:

Effects on fertility: remarks: no data available.

Specific target organ toxicity (STOT) – single exposure

Not classified based on available information

Components:

Taq DNA Polymerase. Assessment: the substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity (STOT) – repeated exposure

Not classified based on available information

Components:

Taq DNA Polymerase: Assessment: the substance or mixture is not classified as specific target organ toxicant, single exposure.

Aspiration hazard

Not classified based on available information.

Components:

Taq DNA Polymerase. No data available

Section 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

FMR1 DNA polymerase

Components:

Nonidet P-40:

Toxicity to fish: LC50:>100 mg/l. Exposure time: 96 h

12.2 Persistence and degradability

No information available

FMR1 DNA polymerase

Components:

Nonidet P-40:

Biodegradability: biodegradation 86%. Remarks: expected to be biodegradable.

12.3 Bioaccumulative potential

No information available

FMR1 DNA polymerase

Components:

Nonidet P-40:

Bioaccumulation: remarks: does not bioaccumulate

12.4 Mobility in soil No information available

12.5 Results of PBT and vPvB No information available

12.6 Other adverse effects No information available

FMR1 DNA polymerase

Components:

Nonidet P-40: additional ecological information: very toxic to aquatic organisms.

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, must comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14. TRANSPORT INFORMATION

14.1 UN number Not regulated as a dangerous good

14.2 UN proper shipping name Not regulated as a dangerous good

14.3 Transport hazard classes Not regulated as a dangerous good

14.4 Packaging group Not regulated as a dangerous good

14.5 Environmental hazards Not regulated as a dangerous good

14.6 Special precautions for users Not dangerous goods

**14.7 Transport without packaging
according to MARPOL 73/78 Annex II and IBC code** Not applicable

Section 15. REGULATORY INFORMATIONS

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None.

FMR1 DNA Polymerase

Labelling: regulation (EC) No 1272/2008. Hazard statements: H412 harmful to aquatic life with long lasting effects

Precautionary statements: prevention P273: avoid release to the environment.

15.2 Chemical safety assessment

No Chemical safety assessment has been carried out.

Section 16. OTHER INFORMATION

According to data in our possession, the information provided in this Safety Data Sheet is correct. Please note that the information shall not be taken as exhaustive and must be regarded as purely indicative. EXPERTEAM s.r.l. shall not be held liable for any damage resulting from handling or from contact with the product described therein. All materials and mixtures may present unknown hazards and should be used with caution. Unknown hazards not described in this document may arise from handling or from contact with the product.