

MATERIAL SAFETY DATA SHEET

FDG – Galactosidase Assay Kit

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

1.1. PRODUCT DETAILS

Trade Name: FDG – Galactosidase Assay Kit

Catalog Number: CA083

1.2. COMPANY DETAILS

Supplier: Canvax Reagents S.L., Luis de Mercado St. 19, Boecillo Technological Park, Valladolid (Spain)

1.3. EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: 900-868538 (CHEMTREC España)
+(34)-931768545 (CHEMTREC international)

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (67/548/CEE) or (1999/45/CE): Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Physical Hazards: NA.

Health Hazards: NA.

Environmental Hazards: NA.

2.2 LABEL ELEMENTS

According to Regulation (EC) No 1272/2008: Not a hazardous substance or mixture.

2.3 PREVENTIVE ADVICE

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

FIRST AID MEASURES

3.2 DESCRIPTION OF FIRST AID MEASURES

Inhalation: After inhalation: fresh air.

Ingestion: After swallowing: immediately make victim drink water (two glasses at most) Consult doctor if feeling unwell.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.



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Eye contact: After eye contact: rinse out with plenty of water. Remove contact lenses.

3.3 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Irritant effects, inebriation, Nausea, Vomiting, Headache, Convulsions, restlessness, Irregular cardiac activity.

3.4 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available.

FIRE FIGHTING MEASURES

4.2 EXTINGUISHING MEDIA

Suitable extinguishing media: Water, Foam, Carbon dioxide (CO₂), Dry powder.

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

4.3 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Mixture with combustible ingredients. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: Sulphur oxides

4.4 ADVICE FOR FIRE FIGHTERS

Special protective equipment for firefighters. In the event of fire, wear self-contained breathing apparatus. Further information

Suppress (knock down) vapours, gases, mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

ACCIDENTAL RELEASE MEASURES

5.2 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 7.

5.3 ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

5.4 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 6 and 9). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

5.5 REFERENCE TO OTHER SECTIONS

For disposal see section 12.

HANDLING AND STORAGE

6.2 PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling.



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Hygiene measures: Change contaminated clothing. Wash hands after working with substance. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 3.2.

Hygiene measures: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

6.3 CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Storage conditions. Recommended storage, upon receipt, store the kit at -20 °C. β -galactosidase substrate must be protected from light.

No decomposition if stored and applied as directed.

6.4 SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

EXPOSURE CONTROLS / PERSONAL PROTECTION

7.1 CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

7.2 EXPOSURE CONTROLS

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Special protective equipment



Eye/face protection: The following protection should be worn: Chemical splash goggles.

Hand protection: It is recommended that gloves be made of the following materials: Nitrile rubber.

Other skin and body protection: Wear rubber apron. Wear rubber footwear.

Respiratory protection: required when vapours/aerosols are generated.

Recommended Filter type: filter ABEK

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK.



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8 PHYSICAL AND CHEMICAL PROPERTIES

8.1 BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid.

Color: clear, colorless.

Odor: malodorous.

Water solubility: at 20 °C soluble

8.2 OTHER INFORMATION

Not determined.

9 STABILITY AND REACTIVITY

9.1 REACTIVITY

Not determined.

9.2 CHEMICAL STABILITY

The product is chemically stable under standard ambient conditions (room temperature).

9.3 POSSIBILITY OF HAZARDOUS REACTIONS

Violent reactions possible with:
Strong oxidizing agents, bases

9.4 CONDITIONS TO AVOID

no information available

9.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents

9.6 HAZARDOUS DECOMPOSITION PRODUCTS

In the event of fire: see section 5.

10 TOXICOLOGICAL INFORMATION

10.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Mixture: Acute oral toxicity, Acute toxicity estimate: > 2,000 mg/kg.

Symptoms: Nausea, Vomiting

Inhalation: No data available

Respiratory: No data available

Ingestion: No data available



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Skin contact: No data available

Eye contact: No data available

10.2 FURTHER INFORMATION

After absorption:

Headache, inebriation, restlessness, Convulsions, Cardiac irregularities

Damage to: Kidney, The following applies to mercaptans in general: offensive odour.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Components:

(R*,R*)-1,4-Dimercapto-2,3-butanediol; Acute oral toxicity: LD50 Rat: 400 mg/kg

11 ECOLOGICAL INFORMATION

Ecotoxicity: The components of the product are not classified as hazardous to the environment. Large or frequent spills may have harmful effects on the environment.

11.1 TOXICITY

No data available

11.2 PERSISTENCE AND DEGRADABILITY

No data available

11.3 BIOACCUMULATION POTENTIAL

No data available

11.4 MOBILITY IN THE SOIL

No data available.

11.5 PBT AND vPvBm ASSESSMENT RESULTS

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

11.6 OTHER ADVERSE EFFECTS

Discharge into the environment must be avoided.

Components:

(R*,R*)-1,4-Dimercapto-2,3-butanediol

Toxicity to daphnia and other aquatic invertebrates (static test EC50 Daphnia magna (Water flea): 27 mg/l; 48 h (ECOTOX Database)).

12 DISPOSAL CONSIDERATIONS

12.1 WASTE TREATMENT METHODS

Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. Handle uncleaned containers like the product itself. No mixing with other waste.



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See www.retrologistik.com for processes regarding the return of chemicals and containers or contact us there if you have further questions.

Notice Directive on waste 2008/98/EC.

13 TRANSPORT INFORMATION

13.1 UN-NUMBER

ADR/RID: Not classified as dangerous in the meaning of transport regulations.

13.2 UN PROPER SHIPPING NAME

ADR/RID: Not dangerous goods,
IMDG: Not dangerous goods,
IATA: Not dangerous goods

13.3 TRANSPORT HAZARD CLASS(ES)

ADR/RID: Not classified as dangerous in the meaning of transport regulations.

13.4 PACKAGING GROUP

ADR/RID: Not classified as dangerous in the meaning of transport regulations.

13.5 ENVIRONMENTAL HAZARDS

Hazardous pollutant substance/marine pollutant: Not classified as dangerous in the meaning of transport regulations.

13.6 SPECIAL PRECAUTIONS FOR USER

No information required.

13.7 TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL73/78 AND THE IBC CODE

Not classified as dangerous in the meaning of transport regulations.

14 REGULATORY INFORMATION

14.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

National Provisions: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU Legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (as amended).

Guidance: CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

14.2 CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.



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15 OTHER INFORMATION

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Users should make independent decisions regarding completeness of the information based on all sources available.

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.

Canvax Reagents S.L. shall not be held liable for any damage resulting from handling or from contact with the above product. See our website for our terms and conditions of sales.

