

MATERIAL SAFETY DATA SHEET

Senescence Detection Kit (SA- β -gal Staining)

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

1.1. PRODUCT DETAILS

Trade Name: Senescence Detection Kit (SA- β -gal Staining)

Catalog Number: CA090

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: +34 931768545

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (67/548/CEE) or (1999/45/CE) :

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Physical Hazards: not classified

Health Hazards: H317 Causes severe skin burns and eye damage.

Environmental Hazards: not classified.

2.2. LABEL ELEMENTS



H302 Harmful if swallowed.

H332 Harmful if inhaled.

2.3. PREVENTIVE ADVICE

P208 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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2.4. OTHER HAZARDS

None known

3. CHEMICAL CHARACTERIZATION

Product	Substance	CAS-no.	Weight %
X-Gal	Contains no hazardous substances in concentrations to be declared.		
PBS (10X)	Contains no hazardous substances in concentrations to be declared.		
10X Fixative Solution	Formaldehyde	50-00-0	20%
5X Staining Solution	Contains no hazardous substances in concentrations to be declared.		
100X Staining Solution Supplement A	Contains no hazardous substances in concentrations to be declared.		
100X Staining Solution Supplement B	Contains no hazardous substances in concentrations to be declared.		

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation: Remove affected person immediately to fresh air. Get medical attention.

Ingestion: Remove affected person to fresh air and keep warm and at rest in a position comfortable for comfortable breathing position. Rinse mouth with water. Provide plenty of water to drink. Get medical attention if any discomfort continues.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours



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5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Carbon dioxide, water spray, extinguishing powder or appropriate foam.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Dangerous decomposition is not anticipated.

5.3. ADVICE FOR FIRE FIGHTERS

Wear positive pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear protective clothing as described in Section 8 of this Safety data sheet. Avoid inhalation of mists and contact with skin and eyes. Provide adequate ventilation.

6.2. ENVIRONMENTAL PRECAUTIONS

Spills or uncontrolled discharge into watercourses should be reported immediately to the Environment Agency or other competent authority.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Collect the product with a vacuum cleaner. If this is not possible, pick it up with a shovel, broom or similar. Wash the contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal tightly. For waste disposal, see Section 13.

6.4. REFERENCE TO OTHER SECTIONS

For disposal: see section 13.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with good industrial hygiene and safety practice. Use according to package label instructions. Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed. Keep only in the original container. Store at room temperature.

7.3. SPECIFIC END USE(S)

Research use only.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

No exposure limit value known.

8.2. EXPOSURE CONTROLS

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: If ventilation is insufficient, suitable respiratory protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

Information on the known physical chemical properties of each component within Kit are given below. If not included, information is either not available or not applicable.

10X Fixative Solution

Physical state: Liquid
Appearance: Clear
Color: Light yellow
Odor: Pungent
Odor Threshold: 0.83 ppm
pH: 5.8

10X Staining Solution

Physical state: Liquid
Appearance: Clear
Color: Colorless
pH: 5.8

100X Solution A

Physical state: Liquid
Appearance: Clear
Color: Yellow
pH: 9.13

100X Solution B

Physical state: Liquid
Appearance: Clear
Color: Orange
pH: 5.75



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PBS

Physical state: Liquid
Appearance: Clear
Color: Colorless
pH :7

X-Gal

Physical state: Solid
Appearance: Powder
Color: White
Melting point (°C): 230

9.2. OTHER INFORMATION

Not determinated.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

There are no known reactivity hazards associated with this product.

10.2. CHEMICAL STABILITY

Stable at normal room temperature and when used as recommended.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Under normal conditions of storage and use, hazardous reactions will not occur

10.4. CONDITIONS TO AVOID

Strong oxidizing agents, strong bases, strong acids, alkali metals, acid chlorides, acid anhydrides, reducing agents. Temp above 60 °C, direct sunlight, heat.

10.5. INCOMPATIBLE MATERIALS

Not determined.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides, nitrogen oxides, potassium oxides, iron oxides, hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

Acute toxicity:

- Toxic by inhalation.
- On the skin: toxic to skin and mucous membranes.
- On the eye: corrosive effect.



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- Sensitization: No sensitizing effects known.

12. 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.

12.1. TOXICITY

It is not considered toxic to fish.

12.2. PERSISTENCE AND DEGRADABILITY

There are no data on the degradability of this product.

12.3. BIOACCUMULATION POTENTIAL

No data on bioaccumulation.

12.4. MOBILITY IN THE SOIL

The product is soluble in water.

12.5. PBT AND vPvBm ASSESSMENT RESULTS

This product does not contain substances classified as PBT or vPvB.

12.6. OTHER ADVERSE EFFECTS

Not determined.

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

General information: Waste should be treated as hazardous waste. Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

14.1. UN-NUMBER

No information required.

14.2. UN PROPER SHIPPING NAME

No information required.

14.3. TRANSPORT HAZARD CLASS(ES)

No information required.

14.4. PACKAGING GROUP

No information required



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14.5. ENVIRONMENTAL HAZARDS

Hazardous pollutant substance/marine pollutant: No.

14.6. SPECIAL PRECAUTIONS FOR USER

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

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

No information required.

15. REGULATORY INFORMATION

15.1. 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.

15.2. CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.

16. OTHER INFORMATION

Revision comments NOTE: No previous revision

Revision Date: 25/09/2024

Revision: 01

Date of replacement: No previous revision

