

# MATERIAL SAFETY DATA SHEET

## GreenSafe DNA gel stain

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

#### 1.1. PRODUCT DETAILS

Trade Name: GreenSafe DNA gel stain

Catalog Number	Size
E0206	500 µl
E0207	1 ml

#### 1.2. COMPANY DETAILS

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

#### 1.3. EMERGENCY TELEPHONE NUMBER

European emergency number: 112

Spain:

CHEMTREC 900-868538

CHEMTREC (Barcelona) +(34)-931768545

### 2. HAZARDS IDENTIFICATION

#### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The mixture is not classified as hazardous. The available Safety Data Sheet is based on the information requirement according to REACH Article 32, and therefore voluntarily created according to the Annex II of the Regulation (EC) No. 1907/2006 (REACH) in the version of the regulation (EU) 2015/830.

##### GHS-Classification

Signal Word: Not Hazardous

Health Hazard: Not Hazardous

Physical Hazards: Not Hazardous

##### Labelling elements

Labelling according to the regulation (EC) No. 1272/2008 (CLP); Not labelled as hazardous.

P statements: P261 Avoid breathing mist / vapours / spray.

P280 Wear protective gloves / eye protection.



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### 3. CHEMICAL CHARACTERIZATION

Chemical Name	CAS-NO	EINECS-No	Weight %
Active ingredients*	-	-	< 1%
Water	7732-18-5	-	> 99%

\* No obligation for declaration according to the chemical legal regulations.

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### 4. FIRST AID MEASURES

#### 4.1. DESCRIPTION OF DIRTS AID MEASURES

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

Ingestion: Don't induce vomiting. Let rinse the mouth, let spit of the liquid and let drink copious amounts of water. If complains and symptoms occur seek medical advice.

Most important symptoms and effects, both acute and delayed: Not relevant

Indication of any immediate medical attention and special treatment needed: Decontamination, symptomatic treatment. No specific antidote known.

### 5. FIRE FIGHTING MEASURES

#### 5.1. EXTINGUISHING MEDIA

The product is not combustible, adapt the measures to the environment: Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

#### 5.2. ADVICE FOR FIRE FIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.3. UNUSUAL FIRE AND EXPLOSIONS HAZARD(S):

N/A

#### 5.4. FLASH POINT

N/A



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### 5.5. AUTOIGNITION TEMP

N/A

### 5.6. FLAMMABILITY

N/A

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors. Wear disposable coveralls and discard them after use.

### 6.2. ENVIRONMENTAL PRECAUTIONS

Environmental Precautions Prevent further leakage or spillage if safe to do so. See Section 12 for additional information.

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Soak up with inert absorbing materials and place in a closed container for disposal. Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

### 7.1. PRECAUTIONS FOR SAFE HANDLING

Always wear recommended Personal Protective Equipment. No special handling required.

### 7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Storage Keep cap tightly closed. Store at 4°C. Keep away from sunlight.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. EXPOSURE CONTROLS

Exposure Limits: No known exposure limits.

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

Respiratory protection:



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No respiratory protection is necessary when working with the small quantities intended for the product. In case of exceptional operating conditions, working with larger quantities and with the risk of aerosol formation use suitable respiratory protection, e.g. half-masks according to EN 140 with filters according to EN 143-P1. Observe wearing time limit.

Eye: Eye protection goggles with side protection.

Skin: Use clothing used in the chemical industry. Skin protection agents are not as effective as protective gloves, so they should be preferred as much as possible. If no protective gloves can be worn, apply water-insoluble skin protection preparations to the clean skin before starting work and after every break. Before breaks and at the end of work, skin cleansing with soap and water is required. After cleansing, use a greasy skin care product.

Body: Special body protection generally not required; normal work clothes adequate.

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

Environmental Exposure Controls: Prevent undiluted product entering drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

#### General Physical Properties

Form: Liquid

Color: orange-red to brown

Odour: odourless

Boiling Point/Range: No information available

Melting Point/Range: No information available

Flash Point: No information available

Auto-ignition Temperature: No information available

Oxidizing Properties: No information available

Solubility: No information available

pH Range: No information available



**MATERIAL SAFETY DATA SHEET****GreenSafe DNA gel stain****10. STABILITY AND REACTIVITY****10.1. REACTIVITY**

Not reactive under the intended use and storage conditions.

**10.2. CHEMICAL STABILITY**

Chemically stable under the intended use and storage conditions.

**10.3. POSSIBILITY OF HAZARDOUS REACTIONS**

Unknown under the intended use and storage conditions.

**10.4. CONDITIONS TO AVOID**

High temperature.

**10.5. INCOMPATIBLE MATERIALS**

Strong acids and bases, oxidizing and reducing agents

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

At high temperature carbon monoxide, carbon dioxide, sulphur oxides, organic decomposition products.

**11. TOXICOLOGICAL INFORMATION****11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute Toxicity:

Parameter	Result	Species	Method	Remarks
LD50 oral	>10.000 mg/kg	Kunming mouse♂/♀	unknown	1.000-10.000 mg/kg

Toxicokinetics, metabolism and distribution: No data available.

Corrosive and irritation effects: No data available.

Sensitizing effects: No data available.

Subacute and chronic toxicity: No data available.

Carcinogenicity, mutagenicity and reproduction toxicity:

Parameter	Value	Cell culture/ Species	Method	Remarks
In-vitro bacterial back-mutation test	non mutagen	Salmonella typhimurium TA97/98/100/102	Ames test	0,5-5 mg/plate; with / without S9 activation



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NOEL in-vivo micronucleus test	5.000 mg/kg (negative)	Kunming mouse ♂/♀	Mouse bone marrow micro-nucleus test	1.000-5.000 mg/kg
In-vitro mammalian chromosomal aberration test	negative	Chinese hamster ovaries cells	In vitro mammalian cell chromosomal aberration detection system	31,2-5.000 µg/ml; with / without S9 activation

### 12. ECOLOGICAL INFORMATION

#### 12.1. ECOTOXICITY EFFECTS:

No information available

#### 12.2. MOBILITY

Not information Available

#### 12.3. BIOACCUMULATION POTENTIAL

Not information Available

#### 12.4. BIODEGRADATION

Not information Available

#### 12.5. RESULTS OF THE PBT AND VPVB ASSESSMENT

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.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. WASTE TREATMENT METHODS

Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

UN number: not relevant

UN proper shipping name: not relevant

Transport hazard class(es): not relevant

Packaging group: not relevant

Environmental hazards: not relevant

Special precautions for user: not relevant



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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not relevant

Remarks: This product is not classified as dangerous good according to ADR / RID / ADN / IDMG-Code and ICAO / IATA.

### 15. REGULATORY INFORMATION

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

EU Regulations:

Classification and labelling acc. to Regulation (EC) No. 1272/2008 (CLP): The product is not subject to classification and labelling.

Authorizations and/or use restrictions: not applicable

Information on Directive 1999/13/EG on VOC emission limitations: 0% VOC in the product

### 16. OTHER INFORMATION

The information mentioned above is based on our present knowledge and is believed to be correct. However, it shall only be used as a guide and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Canvax Biotech shall not be held liable for any damage resulting from the handling or from contact with the above product. This MSDS has been prepared in accordance with EU directives 67/548/EEC, 91/155/EEC and other EU legislation in force.

DISCLAIMER: For R&D use only. Not for drug, household or other uses. The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

