

MATERIAL SAFETY DATA SHEET

DNase I

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

1.1. PRODUCT DETAILS

Trade Name: DNase I

Catalog Number: EZ0018; EZ0019

1.2. IDENTIFIED RELEVANT USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant uses: Laboratory reagent

1.3. COMPANY DETAILS

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

1.4. EMERGENCY TELEPHONE NUMBER

European emergency number: 112

Spain:

CHEMTREC 900-868538

CHEMTREC (Barcelona) +(34)-931768545

For Research use only

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

It is not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2. LABEL ELEMENTS

Regulation No 1272/2008 (CLP):

Hazard statements:

Not relevant

Precautionary statements:

P101: If medical advice is needed, have the container or label handy.

P102: Keep out of reach of children.

P501: Dispose of the contents/container in accordance with current waste treatment legislation.



MATERIAL SAFETY DATA SHEET

DNase I

2.3. OTHER HAZARDS

Product does not meet PBT/vPvB criteria

The product does not meet the criteria for its endocrine disrupting properties.

3. CHEMICAL CHARACTERIZATION

Chemical description: Mixture of substances

According to the applicable regulations, it is not necessary to disclose any of the components.

Chemical Name	CAS	Weight %
Glycerol	56-81-5	10
DNase I	9003-98-9	90

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 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. Get medical attention if any discomfort continues.

Eye contact: Flush immediately with plenty of water. Remove contact lenses and hold eyelids wide apart. Continue rinsing for at least 15 minutes. Get medical attention immediately. Continue rinsing.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation: May cause an asthma-like shortness of breath.

Eye contact: Severe irritation, burning and tearing.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Non-specific recommendations. In case of doubt, seek medical attention immediately.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Appropriate extinguishing media

Non-flammable product, low risk of fire due to the flammability characteristics of the product under normal conditions of storage, handling and use. In the case of the existence of combustion maintained as a result of handling, storage or



MATERIAL SAFETY DATA SHEET

DNase I

improper use, any type of extinguishing agent can be used (ABC powder, water, ...) Inappropriate extinguishing media
There are no extinguishing agent limitations for this substance/mixture.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Due to its flammability characteristics, the product does not present a risk of fire under normal conditions of storage, handling and use.

5.3. ADVICE FOR FIRE FIGHTERS

Depending on the magnitude of the fire, full protective clothing and self-contained breathing equipment maybe necessary. Have a minimum of emergency installations or elements of action (fireproof blankets, portable first aid kit,) in accordance with R.D.486/1997 and subsequent modifications.

Additional provisions: Act in accordance with the Internal Emergency Plan and the Information Sheets on action against accidents and other emergencies. Suppress any source of ignition. In case of fire, refrigerate the containers and storage tanks for products susceptible to ignition, explosion or BLEVE as a result of high temperatures. Avoid the discharge of the products used in the extinction of the fire to the aquatic environment.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Isolate leaks as long as it does not pose a risk to the people performing this function.

6.2. ENVIRONMENTAL PRECAUTIONS

Product not classified as hazardous to the environment. Keep product away from drains and surface and groundwater.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

It is recommended: Sweep and collect the product with shovels or other means and place it in a container for reuse (preferably) or disposal.

6.4. REFERENCE TO OTHER SECTIONS

For disposal: see section 13

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

See precautions in section 2.2.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

A.-Technical storage measures ITC
(R.D.656/2017): Not relevant



MATERIAL SAFETY DATA SHEET

DNase I

Classification: Not relevant

B.-General storage conditions.

Keep in a dry, cool and well-ventilated place. For additional information see section 10.5.

7.3. SPECIFIC END USE(S)

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Substances for which occupational exposure limit values are to be monitored in the working environment: Particulate matter not otherwise specified: Inhalable fraction VLA-ED= 10 mg/m³ // Respirable fraction VLA-ED=3 mg/m³.

8.2. EXPOSURE CONTROLS

Eye/face protection

Wear eye protection equipment tested and approved to applicable government standards, such as NIOSH(US) or EN 166 (EU).

Safety glasses Skin

protectionNot

required

Respiratory protection

Not required; except in the case of aerosol formation.

Environmental exposure control

Do not let the product enter the sewer system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

Physical appearance:

Physical condition at 20 °C: Liquid

Appearance: Not determined

Color: Not determined

Odor: Not determined

Olfactory threshold: Not relevant

Volatility:

Boiling temperature at atmospheric pressure: Not relevant *Vapour

pressure at 20°C: Not relevant *

Vapour pressure at 50 °C: Not relevant *Evaporation rate at 20 °C: Not relevant *Product

characterization:

Density at 20 °C: Not relevant * Relative

density at 20 °C: Not relevant *

Dynamic viscosity at 20 °C: Not relevant *

Kinematic viscosity at 20 °C: Not relevant *

Kinematic viscosity at 40 °C: Not relevant *

Concentration: Not relevant *

pH: 8-9

Vapour density at 20°C: Not relevant *

Partition coefficient n-octanol/water at 20 °C: Not relevant *Solubility in

MATERIAL SAFETY DATA SHEET

DNase I

water at 20 °C: Not relevant *

Solubility property: Not relevant * Decomposition

temperature: Not relevant * Melting point/freezing

point: Not relevant * Flammability:

Flash point: Not applicable Flammability

(solid, gas): Not relevant *

Auto-ignition temperature: Not relevant *

Lower flammability limit: Not relevant *

Upper flammability limit: Not relevant *

Explosiveness (Solid):

Lower explosive limit: Not relevant *

Upper explosive limit: Not relevant *.

Characteristics of the particles:

Equivalent average diameter: Not relevant *

9.2. OTHER INFORMATION

Information concerning physical hazard classes:

Explosive properties: Not relevant *

Oxidizing properties: Not relevant *

Corrosive to metals: Not relevant * Heat

of combustion: Not relevant *

Aerosols-total percentage (by mass) of flammable components: Not relevant *

**Not relevant due to the nature of the product, not providing characteristic information of its danger.*

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

Not determined.

10.4. CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

10.5. INCOMPATIBLE MATERIALS

Not determined.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS



MATERIAL SAFETY DATA SHEET

DNase I

See section 10.3, 10.4 and 10.5 for specific decomposition products. Depending on the conditions of decomposition, complex mixtures of chemicals can be released as a result: carbon dioxide (CO₂), carbonmonoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity

Oral: No data available Inhalation:

No data available Cutaneous: No

data available Skin corrosion or

irritation No data available

Severe eye injury or irritation

No data available

Respiratory or skin sensitization

No data available Mutagenicity

in germ cellsNo data available

Carcinogenicity

No data available

Reproductive toxicityNo

data available

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposures

No data available

Suction hazard No

data available

11.2. ADDITIONAL INFORMATION

No pueden excluirse características peligrosas, pero son poco probables si su manipulación es adecuada.

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

MATERIAL SAFETY DATA SHEET

DNase I

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

ADR/RID: - Not relevant

IMDG: - Not relevant

IATA: - Not relevant

14.2. UN PROPER SHIPPING NAME

ADR/RID: Non-dangerous
goods IMDG: Non-Dangerous
Goods IATA: Non-dangerous
goods.

14.3. TRANSPORT HAZARD CLASS(ES)

ADR/RID: - Not relevant

IMDG: - Not relevant

IATA: - Not relevant

14.4. PACKAGING GROUP

ADR/RID: - Not relevant

IMDG: - Not relevant

IATA: - Not relevant

14.5. ENVIRONMENTAL HAZARDS

ADR/RID: no IMDG Marine pollutant: Not relevant

IATA: Not relevant.

14.6. SPECIAL PRECAUTIONS FOR USER

MATERIAL SAFETY DATA SHEET

DNase I

No information required.

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

Candidate substances for authorisation in Regulation (EC) 1907/2006 (REACH): Not relevant Substances included in REACH Annex XIV (authorisation list) and expiry date: Not relevant Regulation (EC) 1005/2009 on substances that deplete the ozone layer: Not relevant

Active substances which have been included in Article 95 of Regulation (EU) No. 528/2012: Not relevant REGULATION (EU) No 649/2012 on the export and import of hazardous chemicals: Not relevant

Seveso III:

Not relevant

Restrictions on the placing on the market and use of certain dangerous substances and mixtures (Annex XVII to the REACH Regulation, etc.):

Not relevant

Special provisions on the protection of persons or the environment:

It is recommended that the information collected in this safety data sheet be used as input data in a risk assessment of local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006 and all subsequent amendments thereto.

15.2. CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.

16. OTHER INFORMATION

The above information is believed to be correct but is not intended to be exhaustive and should be used for guidance only.

The information contained herein is based on the present state of our knowledge and is applicable to appropriate safety precautions for the product.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods

by Road IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation

Organization COD: Chemical Oxygen

Demand

BOD5: Biological Oxygen Demand at 5

days BCF: Bioconcentration Factor

LD50: Lethal Dose 50



MATERIAL SAFETY DATA SHEET

DNase I

LC50: Lethal concentration 50

EC50: Effective Concentration

50

Log POW: Logarithm Partition Coefficient

OctanolAgua Koc: Organic Carbon Partition Coefficient

SDS: Safety Data Sheet

UFI: Unique formula identifier

IARC: International Agency for Research on Cancer

