

MATERIAL SAFETY DATA SHEET

Clean-Easy™ PCR & Gel Extraction

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

1.1. PRODUCT DETAILS

Trade Name: Clean-Easy™ PCR & Gel Extraction Kit

Catalog Number	Size
AN0091	100 rxn
AN0091-XL	250 rxn

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 product is a kit consisting of different buffers, which different buffers are produced using individual ingredients. The classification of the ingredients can be obtained from section 3.

Labelling elements



Hazard statements:

H302 + H332:	Harmful if swallowed or inhaled.
H315:	Causes skin irritation
H317:	May cause allergic skin reaction
H318:	May cause serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled



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Supplemental Hazard of Danger:

EUH032 In contact with acids liberates toxic gases.

Cautionary advice:

P261:P305+P351+P338+P310	Rinse cautiously with water for at least 15 minutes if in contact with eyes. Remove contact lenses, if present and easy to do and continue rinsing. Call a poison control center or doctor/physician immediately.
P342+P311	Call a poison center or doctor or physician if you experience respiratory symptoms
P362+P364	Take off contaminated clothing and wash before use

3. CHEMICAL CHARACTERIZATION

Chemical Name	CAS-NO	EINECS-No	Weight %
Guanidinium	593-84-0	209-812-1	≥ 50% - <70 %
Thiocyanate	209-812-1	206-370-1	≥ 50% - <30 %
Cresol red	1733-12-6	217-064-2	≥ 1% - <3 %

* 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 FIRST AID MEASURES

If inhaled: After inhalation: fresh air.

In case of skin contact:

Rinse skin with water/shower.

After eye contact: After eye contact: Rinse thoroughly with water. Remove contact lenses.

After swallowing: After swallowing: make drink water (maximum 2 glasses), in case of discomfort consult a doctor.

4.2. MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described on the label (see section 2.2) and/or in section 11.



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4.3. INDICATION OF ANY MEDICAL ATTENTION AND SPECIAL TREATMENT TO BE GIVEN IMMEDIATELY

No data available.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

There are no extinguishing agent limitations for this substance/mixture.

5.2. SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon oxides

Sulfur oxides

5.3. ADVICE FOR FIRE FIGHTERS

In case of fire, protect yourself with self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Information for non-emergency services personnel: Avoid inhalation of dust. Evacuate the danger area, follow emergency procedures, consult experts.

Personal protective equipment, see section 8.

6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow the product to enter the sewage system.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Cover sewers. Collect, collect and vacuum spills. Observe possible material restrictions (see notes in sections 7 or 10). Collect dry and proceed with waste disposal. Rinse. Avoid dust formation.



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6.1. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For waste 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

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place to protect the quality of the product.

Storage stability

Recommended storage temperature 4°C

7.3. Specific end uses

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. EXPOSURE CONTROLS

Components with environmental occupational exposure limit values.

Contains no substances with occupational exposure limit values.

8.2. EXPOSURE CONTROLS

Personal protection

Eye/face protection

Wear eye protection equipment tested and approved according to relevant governmental standards such as NIOSH (USA) or EN 166 (EU).

Safety glasses



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Skin protection

Avoid skin contact by wearing chemical resistant gloves, a lab coat and other protective equipment depending on the conditions of use. Inspect gloves for chemical breakdown and replace them at regular intervals. Clean protective equipment regularly. Wash hands and other exposure areas with mild soap and water before eating, drinking and when leaving work. Have a safety shower available

Respiratory Protection

A respiratory protection program complying with OSHA requirements 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant the use of a respirator.

Do not allow product to enter sewage system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

- a) Appearance Form: liquid
- b) Odor: No data available
- c) Olfactory threshold: No data available.
- d) pH: Buffers with different pH.
- e) Melting point: No data available
- f) Initial boiling point and boiling range: RNase-free water: 100 °C
- g) Flash point: No data available
- h) Evaporation Rate: No data available
- i) Flammability (solid, gas): Not available
- j) Upper/lower flammability or explosive limits: Not available
- k) Vapor pressure RNase-free water: 23 hPa (20 °C)
- l) Vapour density No data available
- m) Density No data available
- Relative density No data available
- n) Auto-ignition temperature: No data available
- o) Decomposition Temperature: No data available



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10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Generally valid for combustible organic substances and mixtures: in case of fine spreading, in a swirled state, an explosion hazard must be reckoned with in general.

10.2. CHEMICAL STABILITY

The product is chemically stable under normal conditions (at ambient temperature).

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4. CONDITIONS TO AVOID

Strong acids and oxidizing agents, bases.

10.5. INCOMPATIBLE MATERIALS

No data available.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Mix

Acute Toxicity:

EDTA	LD50 oral - rat - 2000mg/kg LD50 oral - rabbit - 2300mg/kg
Guanidine hydrochloride	LD50 oral - rat - 475mg/kg LD50 oral - mouse - 571mg/kg
Triton X-100	LD50 oral - rat - 1900 - 5000 mg/kg
Sodium dodecyl sulfate	LD50 oral - rat - 1288mg/kg
Sodium hydroxide	LD50 oral - rabbit - 500mg/kg



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Skin corrosion or irritation:

Guanidine hydrochloride	LD50 dermal - rabbit - >2001 mg/kg
Triton X-100	LD50 dermal - rabbit - >3000 mg/kg
Sodium dodecyl sulfate	LD50 dermal - rabbit - >10g/kg

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

Guanidine hydrochloride: LC50 - female rat - 3.2mg/l, 4hrs.

LC50 - male and female rat - 5.4mg/l, 4hrs

LC50 - male rat - 7.7mg/l, 4hrs

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposures

No data available

Aspiration hazard

No data available

11.2. ADDITIONAL INFORMATION

Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components that have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Based on our information, we believe that the chemical, physical and toxicological properties have not been adequately investigated.

Hazardous characteristics cannot be excluded, but are unlikely if handled properly.



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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 does not contain components that are considered to be bioaccumulative and persistent toxic (PBT) or very bioaccumulative and very persistent (vPvB) at levels of 0.1% or higher.

12.6. ENDOCRINE DISRUPTING PROPERTIES

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

12.7. OTHER ADVERSE EFFECTS

Do not allow undiluted product or large quantities of it to reach ground water, watercourses or sewage systems.

No ecological information available

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Do not contaminate ponds, waterways or ditches with chemicals or used containers, send them to a licensed waste management company.

Waste should be disposed of in accordance with local regulations and nation to originals.

Do not mix with other wastes. Handle soiled containers like the product itself.

Waste Directive 2008/98 note / EC.



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14. TRANSPORT INFORMATION

14.1 UN Number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN Proper Shipping Name: - ADR/RID: - Non-dangerous goods

ADR/RID: Non-dangerous goods

IMDG: Non-dangerous goods

IATA: Non-dangerous goods

14.3 Transport Hazard Class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packing group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental Hazards

ADR/RID: no IMDG Marine pollutant:

no

IATA: no

14.6 Special precautions for users

Other information

Product not hazardous according to transport regulation criteria.

15. REGULATORY INFORMATION

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

The safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

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 in this document is based on the present state of our knowledge and is applicable to the appropriate safety precautions for the product.



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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

IDQO: Chemical Oxygen Demand

BOD5: Biological Oxygen Demand after 5 days

BCF: Bioconcentration Factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective Concentration

50Log POW: Logarithm Partition Coefficient Octanol-Water

Koc: Partition Coefficient for Organic Carbon

SDS: Safety Data Sheet

UFI: Unique Formula Identifier

IARC: International Agency for Research on Cancer

