

## MSDS

Version 2.0  
Revision Date: 07/29/2025

### Product and Company Identification

**Product Name:** McExtract Gel Extraction Kit  
**Cat #:** EGEK-150, EGEK-500  
**Product Use:** For Research Use Only. Not for use in diagnostic procedures  
**Company:** Molecular Cloning Laboratories (MCLAB)  
320 Harbor Way  
South San Francisco  
CA 94080  
**Telephone:** 888-MCLAB-88  
650-871-8771  
**Fax:** 650-871-8796

### HAZARDS IDENTIFICATION

#### Emergency Overview

#### OSHA Hazards

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

#### GHS Classification

Acute toxicity (oral): Category 4  
Serious eye damage: Category 1  
Acute aquatic toxicity: Category 3

#### GHS Label element

Hazard pictograms



Signal Word: Danger

Hazard Statements:

H302 Harmful if swallowed

H318 Causes serious eye damage

H402 Harmful to aquatic life

Precautionary Statements:

Prevention: P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

Response: P305 + P311 + P338 if in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P308 + P311 if exposed or concerned: Call a poison center or doctor/physician

### COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name           | CAS-No.  | Concentration (%) |
|-------------------------|----------|-------------------|
| Guanidinium thiocyanate | 593-84-0 | >=50 - < 70       |

### FIRST AID MEASURES

If inhaled

If unconscious, place person in recovery position. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water, while removing all contaminated clothes and shoes

In case of eye contact

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Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Rinse immediately with plenty of water and seek medical advice. Remove contact lenses.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water and obtain immediate medical attention.

## FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

## ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: Room temperature

## EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

General industrial hygiene practice.

## PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

|        |                     |
|--------|---------------------|
| Form   | powder, lyophilized |
| Colour | no data available   |

### Safety data

|  |                        |
|--|------------------------|
| pH   | 5.5                    |
| Melting point/freezing point               | no data available      |
| Boiling point                              | no data available      |
| Flash point                                | no data available      |
| Ignition temperature                       | no data available      |
| Autoignition temperature                   | no data available      |
| Lower explosion limit                      | no data available      |
| Upper explosion limit                      | no data available      |
| Vapour pressure                            | no data available      |
| Density                                    | 1.13 g/cm <sup>3</sup> |
| Water solubility                           | no data available      |
| Partition coefficient: n-octanol/<br>water | no data available      |
| Relative vapour density                    | no data available      |
| Odour                                      | no data available      |
| Odour Threshold                            | no data available      |
| Evaporation rate                           | no data available      |

## STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

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Materials to avoid

no data available

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Other decomposition products - no data available

## TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

593 mg/kg

Inhalation LC50

no data available

Dermal LD50

no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation      May be harmful if inhaled. May cause respiratory tract irritation.

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Ingestion            May be harmful if swallowed.

Skin                    May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause irreversible eye damage.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Synergistic effects

no data available

#### Additional Information

RTECS: Not available

## ECOLOGICAL INFORMATION

#### Toxicity

no data available

#### Persistence and degradability

no data available

#### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### PBT and vPvB assessment

no data available

#### Other adverse effects

no data available

## DISPOSAL CONSIDERATIONS

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

## REGULATORY INFORMATION

#### OSHA Hazards

Harmful by ingestion, Severe eye irritant, Severe respiratory irritant

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SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## OTHER INFORMATION

**For research use only.** The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.