

# Safety data sheet

Version: 01.01/USA

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## SECTION 1: Identification

### 1.1. Product identifier

Trade name: microRNA ISH Buffer set (FFPE)/Optimization Kit (FFPE)/Buffer and Controls Kit

Item number: 90000, 9000x, 90010

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Life Science laboratory chemicals. For research use only.  
Kit containing 2 or 5 or 4 tubes.  
NB: Only the tube containing Proteinase poses a danger. This safety data sheet describes the danger of Proteinase.

### 1.3. Details of the supplier of the safety data sheet

Supplier: Exiqon A/S  
Skelstedet 16  
2950 Vedbæk  
.Denmark  
Tel: +4545660888  
Fax: +4545661888  
Email: support@exiqon.com  
WWW: www.exiqon.dk

### 1.4. Emergency telephone number

+45 45 66 18 88  
Emergency telephone comments: The emergency telephone is open between 8 a.m. and 4 p.m. on workdays.

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification: Eye Irrit. 2 Skin Irrit. 2 STOT SE 3 Resp. Sens. 1

Most serious harmful effects: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 2.2. Label elements



Signal word: Danger

Contains: Proteinase, Tritirachium album serine

H-phrases: Causes serious eye irritation.  
Causes skin irritation.  
May cause respiratory irritation.

P-phrases: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wear protective gloves.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

### 2.3. Other hazards

None known.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

CAS No.	Substance	w/w%	Note
39450-01-6	Proteinase, Tritirachium album serine	100	.

Other information: Any letters after the CAS number refer to individual data sets.

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of breathing difficulties.  
Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.  
Skin: Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.  
Eyes: Flush immediately with water (preferably using eye wash station for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.  
Other information: Bring the safety data sheet or label when seeking medical advice

### 4.2. Most important symptoms and effects, both acute and delayed

Irritating to eyes. Causes a burning sensation and tearing. Irritating to skin – may cause reddening. Inhalation of dust is irritating to the upper airways. May cause sensitization by inhalation. Symptoms include cold, sneezing, breathing difficulties and hives.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms. No special immediate treatment required.

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## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: The product is not directly flammable. Choose extinguishing agents based on the surrounding fire.  
Unsuitable extinguishing media: Do not use a jet of water, as it may spread the fire.

### 5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapor and smoke gases – seek fresh air. Can generate harmful flue gases containing carbon monoxide in the event of fire.

### 5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapor and smoke gases – seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stop leak if this can be done without risk. Wear gloves. Wear safety goggles. In case of insufficient ventilation, wear respiratory protective equipment.

For emergency responders: In addition to the above: Protective suit is recommended.

## 6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

## 6.3. Methods and material for containment and cleaning up

Wipe up minor spills with a cloth.

## 6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

### 7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, drugs, etc.

### 7.3. Specific end use(s)

None.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Legal basis: ACGIH Threshold Limit Values (TLV's) and Biological Exposure Indices (BEI's), 2015. OSHA 29 CFR part 1910.1000, table Z1-Z3, Limits for Air Contaminants 2006.

Contains no substances subject to disclosure requirements.

### 8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles.

Personal protective equipment, skin protection: Wear gloves. Type of material: Nitril rubber. Breakthrough time has not been determined for the product. Change gloves often.

Personal protective equipment, respiratory protection: In case of insufficient ventilation, wear air-purifying respirator with P2 filter.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State: Liquid /Solid substance  
Color: No data  
Odour: No data  
Odour threshold: No data  
pH (solution for use): No data  
pH (concentrate): No data  
Melting point/freezing point: No data  
Initial boiling point and boiling range: No data  
Flash point: No data  
Evaporation rate: No data  
Flammability (solid, gas): No data  
Upper/lower flammability limits: No data  
Upper/lower explosive limits: No data  
Vapor pressure: No data  
Vapour density: No data  
Relative density: No data  
Solubility: Soluble in the following: Water.  
Partition coefficient: No data

n-octanol/water:  
Auto-ignition temperature: No data  
Decomposition temperature: No data  
Viscosity: No data  
Explosive properties: No data  
Oxidizing properties: No data

## 9.2. Other information

None.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with the following: Strong oxidisers.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong oxidisers.

### 10.6. Hazardous decomposition products

Can generate harmful flue gases containing carbon monoxide in the event of fire.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral: The product does not have to be classified. Test data are not available.

Acute toxicity - dermal: The product does not have to be classified. Test data are not available.

Acute toxicity - inhalation: The product does not have to be classified. Test data are not available.

Skin corrosion/irritation: Irritating to skin – may cause reddening.

Serious eye damage/eye irritation: Irritating to eyes. Causes a burning sensation and tearing.

Respiratory sensitisation or skin sensitisation: May cause sensitization by inhalation. Symptoms include cold, sneezing, breathing difficulties and hives.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: Inhalation of dust is irritating to the upper airways.

Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

Other toxicological effects: None known.

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## SECTION 12: Ecological information

**12.1. Toxicity**

The product does not have to be classified. Test data are not available.

**12.2. Persistence and degradability**

Test data are not available.

**12.3. Bioaccumulative potential**

Test data are not available.

**12.4. Mobility in soil**

Test data are not available.

**12.5. Results of PBT and vPvB assessment**

No assessment has been made.

**12.6. Other adverse effects**

None known.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

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**SECTION 14: Transport information**

The product is not covered by the rules for transport of dangerous goods.

**14.1. UN number**

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**14.2. UN proper shipping name**

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**14.3. Transport hazard class(es)**

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**14.4. Packing group**

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**14.5. Environmental hazards**

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**14.6. Special precautions for user**

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**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Special provisions: None.

**US Federal**

**TSCA:** All ingredients are on the inventory or exempt from listing.

**CERCLA:** None of the ingredients are on the inventory.

**SARA title III Rules**

**Section 302:** None of the ingredients are on the inventory.

**Section 311/312 Hazard classes:**

Fire Hazard       Reactive Hazard       Release of Pressure       Acute Health Hazard       Chronic Health Hazard

**Section 313:** None of the ingredients are on the inventory.

**NFPA ratings (scale 0 - 4)**

**Health Hazard:** 2

**Flammability:** 0

**Instability:** 0

**HMIS III ratings (scale 0 - 4)**

**Health hazard:** 3

**Flammability:** 0

**Physical hazard:** 0

**State regulations**

**Proposition 65**

Chemicals known to cause cancer:

None of the ingredients are listed

Chemicals known to cause reproductive toxicity:

None of the ingredients are listed

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**SECTION 16: Other information**

Changes have been made in the following sections: 2,3,16

Abbreviation explanations: PBT: Persistent, Bioaccumulative and Toxic  
vPvB: Very Persistent and Very Bioaccumulative  
STOT: Specific Target Organ Toxicity

Classification method: Calculation based on the hazards of the known components.

Training: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Other information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with CFR29, §1910.1200.

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LBN/ Bureau Veritas HSE Denmark A/S Birkemosevej 7, DK-6000 Kolding T: +45 75508811, F: +45 75508810, E-mail: infohse@dk.bureauveritas.com, Web: www.hse.bureauveritas.dk (Made in Toxido®) USA