

# Safety data sheet

Version: 01.02/USA

---

## SECTION 1: Identification

### 1.1. Product identifier

Trade name: miRCURY LNA™ microRNA Array, Slides

Item number: 208500, 208501, 208502, 208504, 208505, 208506, 208520, 208521, 208522

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

Recommended uses: Laboratory chemicals. For research use only.  
208500, 208501, 208520, 208521 contain 6 tubes + 1 alufoil bag.  
208502, 208522 contain 8 tubes + 1 alufoil bag.  
NB: Only the tubes containing Detergent solution (item 208024) and Hybridization buffer (item 208022) pose a danger. This safety data sheet describes the danger of these items.

### 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 08 88  
Emergency telephone comments: The emergency telephone is open between 8 a.m. and 4 p.m. on workdays.

---

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification: Skin Irrit. 2 Eye Irrit. 2 Carc. 2 Repr. 1B STOT RE 2

Most serious harmful effects: Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

### 2.2. Label elements



Signal word: Danger

H-phrases: Causes skin irritation.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May damage the unborn child.

May cause damage to organs through prolonged or repeated exposure.

P-phrases: Obtain special instructions before use.  
Do not breathe vapours.  
Wear protective gloves.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental information: Restricted to professional users.

### 2.3. Other hazards

None known.

---

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

CAS No.	Substance	w/w%	Note
75-12-7-B	Formamide (item 208022)	25-40	.
151-21-3-f	Sodium dodecyl sulphate (item 208024)	10-15	.

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

---

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.

Skin: Immediately remove contaminated clothing, watch and jewellery. 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 skin – may cause reddening. Irritating to eyes. Causes a burning sensation and tearing. Suspected of causing cancer. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.

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

Treat symptoms. No special immediate treatment required. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

---

## 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 decomposes when combusted and the following toxic gases can be formed: Nitrous gases/ Sulphur oxides/ Carbon monoxide and carbon dioxide.

### 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 with a chemical protection suit.

---

## 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. Provide good ventilation. Wear gloves. Wear safety goggles.

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.

---

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

The product should be used under well-ventilated conditions and preferably under process ventilation. Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work. A workplace assessment must be conducted to ensure that employees are not exposed to effects that may involve a risk during pregnancy.

### 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.

---

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limits:

Ingredient:	Exposure limit	Notations
Formamide	TWA: 10 ppm (ACGIH)	Skin

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.

Notations: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

### 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.

Personal protective equipment, respiratory protection: In case of insufficient ventilation, wear respiratory protective equipment. Filter type: A. B. K.

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

---

## SECTION 9: Physical and chemical properties

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

State: Liquid  
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 n-octanol/water:	No data
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.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

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**

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released. Nitrous gases/ Sulphur oxides/ Carbon monoxide and carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity - oral: The product does not have to be classified. Based on available data, the classification criteria are not met.

151-21-3-f: Rat: LD50 = 1288 mg/kg  
75-12-7-B: Rat: LD50 = 5325 mg/kg (OECD 401)

Acute toxicity - dermal: The product does not have to be classified. Based on available data, the classification criteria are not met. Can be absorbed through the skin causing symptoms such as dizziness and headache.

75-12-7-B: Rat: LD50 = >3000 mg/kg

Acute toxicity - inhalation: The product does not have to be classified. Based on available data, the classification criteria are not met.

151-21-3-f: Rat, , : LC50 = >3900 mg/m<sup>3</sup>  
75-12-7-B: Rat, , 4h: LC50 = >21 mg/l (OECD 403)

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

	75-12-7-B: Rabbit, 20h: Non-irritating
Serious eye damage/eye irritation:	Irritating to eyes. Causes a burning sensation and tearing. 75-12-7-B: Rabbit, Mild (OECD 405)
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	Suspected of causing cancer.  This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity:	May damage the unborn child. 75-12-7-B: Post-implantation mortality and fetotoxicity.
Single STOT exposure:	The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	Causes damage to organs through prolonged or repeated exposure. 75-12-7-B: Rat: May cause damage to organs - blood
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

	The product does not have to be classified. Based on available data, the classification criteria are not met.
Acute toxicity:	151-21-3-f: Crustaceans: Daphnia magna: 48hEC50 = 1,8 mg/l Algae: : 72hEC50 = 53 mg/l  75-12-7-B: Fish: Leuciscus idus: 96hLC50 = 6569 mg/l Crustaceans: Daphnia magna: 48hEC50 = >500 mg/l Algae: : 72hEC50 = >500 mg/l

### 12.2. Persistence and degradability

Expected to be biodegradable.  
151-21-3-f: Readily biodegradable.  
75-12-7-B: Readily biodegradable.

### 12.3. Bioaccumulative potential

No bioaccumulation expected.  
151-21-3-f: Partition coefficient n-octanol/water: 1,60  
75-12-7-B: Partition coefficient n-octanol/water: -0,82

### 12.4. Mobility in soil

Test data are not available.

### 12.5. Results of PBT and vPvB assessment

None known.

### 12.6. Other adverse effects

None known.

---

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

Avoid discharge to drain or surface water.

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.

---

**SECTION 14: Transport information**

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

**14.1. UN number** -

**14.2. UN proper shipping name** -

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

**14.4. Packing group** -

**14.5. Environmental hazards** -

**14.6. Special precautions for user** -

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

---

**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:** 4; \*

**Flammability:** 0

**Physical hazard:** 0

**Remarks:** Chronic hazard

**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

---

**SECTION 16: Other information**

Changes have been made in the following sections: 1

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.

Revision: 15-12-2016

Replaces: 04-04-2016

---

THS/ 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