

# Safety data sheet

Revision: 15-03-2016  
Replaces: 24-04-2014  
Version: 01.01/EU-UK

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name: miRCURY LNA™ microRNA Array, R2S probe set  
Item number: 208510

### 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 8 tubes + 7 alufoil bags.  
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.

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

CLP-classification (Regulation (EC) No 1272/2008): Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 Repr. 1B; H360D STOT RE 2; H373

*Please see section 16 for the full text of H-phrases.*

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

|                           |   |
|---------------------------|---|
| Contains:                 | Formamide   |
| H-phrases:                | Causes skin irritation.(H315)<br>Causes serious eye irritation.(H319)<br>Suspected of causing cancer.(H351)<br>May damage the unborn child.(H360D)<br>May cause damage to organs through prolonged or repeated exposure.(H373)  |
| P-phrases:                | Obtain special instructions before use.(P201)<br>Do not breathe vapours.(P260-d)<br>Wear protective gloves.(P280-h)<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305/351/338) |
| Supplemental information: | Restricted to professional users.   |

### 2.3. Other hazards

The product does not contain any PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Registration number       | CAS/EC No.              | Substance                             | CLP-classification (Regulation (EC) No 1272/2008)                        | w/w%  | Note |
|---------------------------|-------------------------|---------------------------------------|--|-------|------|
| 01-211949606<br>4-35-xxxx | 75-12-7-B<br>200-842-0  | Formamide (item 208022)               | Carc. 2;H351 Repr. 1B;H360D STOT RE 2;H373                               | 25-40 | 14   |
| .                         | 151-21-3-f<br>205-788-1 | Sodium dodecyl sulphate (item 208024) | Acute Tox. 4;H302 Eye Irrit. 2;H319<br>Skin Irrit. 2;H315 STOT SE 3;H335 | 10-15 | .    |

14) The substance is included in the candidate list (SVHC), Regulation 1907/2006/EC, Article 59.

Please see section 16 for the full text of H-phrases.

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 equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice. |
| Other information: | When obtaining medical advice, show the safety data sheet or label.   |

### 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: Firefighting 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 water stream, 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 vapour and flue gases – seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit.

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

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, 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

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, medicines, etc.

### 7.3. Specific end use(s)

None.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Legal basis: Commission Directive 2000/39/EC (Occupational Exposure Limits). Last amended by Commission Directive 2009/161/EU.

Contains no substances subject to reporting requirements.

### 8.2. Exposure controls

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

Personal protective equipment, eye/face protection: Wear safety goggles. Eye protection must conform to EN 166.

Personal protective equipment, skin protection: Wear gloves. Type of material: Nitrile rubber. Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: In case of insufficient ventilation, wear respiratory protective equipment. Filter type: A. /B. /K. Respiratory protection must conform to one of the following standards: EN 136/140/145.

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  
Colour: 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                          |
| Vapour 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                          |
| Oxidising 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 existing data, the classification criteria are deemed not to have been met.

75-12-7-B: Rat: LD50 = 5325 mg/kg (OECD 401)

151-21-3-f: Rat: LD50 = 1288 mg/kg

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

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

151-21-3-f: Rabbit: LD50 = 580 mg/kg

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

75-12-7-B: Rat, 4h: LC50 = >21 mg/l (OECD 403)

151-21-3-f: Rat: LC50 = >3900 mg/m<sup>3</sup>

|  |  |
|--|--|
| Skin corrosion/irritation:                       | Irritating to skin – may cause reddening.<br>75-12-7-B: Rabbit, , 20h: Non-irritating                                  |
| Serious eye damage/eye irritation:               | Irritating to eyes. Causes a burning sensation and tearing.<br>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.   |
| Reproductive toxicity:                           | May damage the unborn child.<br>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.<br>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 existing data, the classification criteria are deemed not to have been met.  |
| Acute toxicity: | 75-12-7-B:<br>Fish: <i>Leuciscus idus</i> : 96hLC50 = 6569 mg/l<br>Crustacea: <i>Daphnia magna</i> : 48hEC50 = >500 mg/l<br>Algae: <i>Desmodesmus subspicatus</i> : 72hEC50 = >500 mg/l<br><br>151-21-3-f:<br>Crustacea: <i>Daphnia magna</i> : 48hEC50 = 1,8 mg/l<br>Algae: <i>Desmodesmus subspicatus</i> : 72hEC50 = 53 mg/l |

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

Test data are not available.

### 12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

None known.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Avoid discharge to drain or surface water. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC code: Depends on line of business and use, for instance 16 05 06 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Absorbent/cloth contaminated with the product:  
EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.

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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

-

### 14.3. Transport hazard class(es)

-

### 14.4. Packing group

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### 14.5. Environmental hazards

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### 14.6. Special precautions for user

-

### 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:

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product.

### 15.2. Chemical safety assessment

Chemical safety assessments have been performed for the following substances: Formamide, cas no. 75-12-7

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## SECTION 16: Other information

Changes have been made in the following sections: 2,3,8,16

#### 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.

#### H-phrases:

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H360D May damage the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

#### 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 1907/2006/EC (REACH) as subsequently changed.

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