Safety data sheet

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

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

1.1. Product identifier
Trade name: miRCURY LNA™ Array, Detergent Solution
Item number: 208024

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended uses: Life Science laboratory chemical. For research use only.

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
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
CLP-classification (Regulation (EC) No 1272/2008):
Skin Irrit. 2; H315 Eye Irrit. 2; H319

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

Most serious harmful effects: Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

Signal word: Warning
H-phrases: Causes skin irritation.(H315)
Causes serious eye irritation.(H319)
P-phrases: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305/351/338)
2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Registration number</th>
<th>CAS/EC No.</th>
<th>Substance</th>
<th>CLP-classification (Regulation (EC) No 1272/2008) w/w%</th>
<th>Note</th>
</tr>
</thead>
</table>

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: 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 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 eyes. Causes a burning sensation and tearing. Irritating to skin – may cause reddening.

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

Treat symptoms. No special immediate treatment required.

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: 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 only where personal (close) contact is likely.

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.

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

6.2. Environmental precautions

Do not discharge large quantities of concentrated spills and residue into drains.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections
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, medicines, etc.

7.3. Specific end use(s)  
None.

SECTION 8: Exposure controls/personal protection  
8.1. Control parameters  

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. Breakthrough time has not been determined for the product. Change gloves often.

Personal protective equipment, respiratory protection: Not required.

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  
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: Partly soluble in the following: Water.

Partition coefficient: No data  
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
SECTION 10: Stability and reactivity

10.1. Reactivity
Reacts with the following: 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
Oxidisers.

10.6. Hazardous decomposition products
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.
151-21-3-f: Rat: LD50 = 1288 mg/kg

Acute toxicity - dermal: The product does not have to be classified. Test data are not available for all substances
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.
151-21-3-f: Rat, : LC50 = >3900 mg/m³

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

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

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

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.

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: 151-21-3-f:
Crustacea: Daphnia magna: 48hEC50 = 1.8 mg/l
Algae: Desmodesmus subspicatus: 72hEC50 = 53 mg/l

12.2. Persistence and degradability
Expected to be biodegradable.
151-21-3-f: Readily biodegradable.

12.3. Bioaccumulative potential
No bioaccumulation expected.
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
No assessment has been made.

12.6. Other adverse effects
None known.

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.

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
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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.

15.2. Chemical safety assessment
Chemical safety assessment has not been performed.
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.

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.