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

1.1. Product identifier

Trade name: LNA-A(Bz) phosphoramidite, LNA-T phosphoramidite, LNA-mC(Bz) phosphoramidite, LNA-G(dmf) phosphoramidite, LNA-mC(Ac) phosphoramidite, A2-quencher phosphoramidite

Item number: EQ-0063*/4393112, EQ-0064*/4393114, EQ-0066*, EQ-0082*/4393115, EQ-0093*/4393113, EQ-0138*  
* = Joker (can be no or any number)

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

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):

The product shall not be classified as hazardous according to EU classification and labelling rules.

Most serious harmful effects:

May cause slight irritation to the skin and eyes.

2.2. Label elements

The product shall not be classified as hazardous according to EU classification and labelling rules.

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>
<tbody>
<tr>
<td></td>
<td></td>
<td>Phosphoramidite</td>
<td>-</td>
<td>100</td>
</tr>
</tbody>
</table>

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air, wash out mouth with water and blow nose thoroughly.
Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.
Skin: Remove contaminated clothing. Wash the skin with water.
Eyes: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
Other information: When obtaining medical advice, show the safety data sheet or label.

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

May cause slight irritation to the skin and eyes.

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: Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.
Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

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 vapour and flue gases – seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

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.
For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 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 damp 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

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

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored 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


8.2. Exposure controls

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

Personal protective equipment, eye/face protection: Not required.

Personal protective equipment, skin protection: Plastic or rubber gloves recommended.

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: Solid substance

Colour: Light yellow or dark purple

Odour: Odourless

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: Insoluble 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

None.

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity - oral:</th>
<th>Ingestion may cause discomfort. The product does not have to be classified. Test data are not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - dermal:</td>
<td>The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Acute toxicity - inhalation:</td>
<td>The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td>May cause slight irritation. The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation:</td>
<td>Temporary irritation. The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Respiratory sensitisation or skin sensitisation:</td>
<td>The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td>The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Carcinogenic properties:</td>
<td>The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td>The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Single STOT exposure:</td>
<td>The product does not have to be classified. Test data are not available. Inhalation of dust may cause irritation to the upper airways.</td>
</tr>
<tr>
<td>Repeated STOT exposure:</td>
<td>The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Aspiration hazard:</td>
<td>The product does not have to be classified. Test data are not available.</td>
</tr>
<tr>
<td>Other toxicological effects:</td>
<td>None known.</td>
</tr>
</tbody>
</table>

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
SECTION 13: Disposal considerations
13.1. Waste treatment methods

Avoid discharge to drain or surface water. Contact the local authorities.

EWC code: Depends on line of business and use, for instance 16 05 09 Discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08.

Absorbent/cloth contaminated with the product:
EWC code: 15 02 03 Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02.

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.

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:
No H-phrases.

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.
LNA-A(Bz) phosphoramidite,