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

- **Product identifier**
- **Trade name**: IonLic DMHII
- **CAS Number**: 288627-94-1
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Substance
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier**: SOLARONIX SA
    Rue de l’Ouriette 129, CH-1170 Aubonne, Switzerland
    info@solaronix.com
    T +41 21 821 22 80
    www.solaronix.com
    F +41 21 821 22 89
    info@solaronix.com
- **Emergency telephone number**: Swiss Toxicological Information Center: +41 44 251 51 51

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

![GHS07]

Skin Irrit. 2  H315  Causes skin irritation.
Eye Irrit. 2  H319  Causes serious eye irritation.
STOT SE 3  H335  May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

![Xi; Irritant]

R36/37/38: Irritating to eyes, respiratory system and skin.

**Information concerning particular hazards for human and environment**: Not applicable.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
  The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

![GHS07]

- **Signal word** Warning
- **Hazard statements**
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.
- **Precautionary statements**
  P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
  P280  Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 01.05.2011
Version number 1
Revision: 01.05.2011

Trade name: **IonLic DMHII**

(Contd. of page 1)

- **P305+P351+P338 IF IN EYES**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P321**: Specific treatment (see on this label).
- **P405**: Store locked up.
- **P501**: Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**
· **Results of PBT and vPvB assessment**
  - **PBT**: Not applicable.
  - **vPvB**: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization**: Substances
- **CAS No. Description**
  - 288627-94-1 1,2-dimethyl-3-hexylimidazolium iodide

### 4 First aid measures

- **Description of first aid measures**
  - **General information**: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - **After excessive inhalation**: In case of unconsciousness place patient in a stable laying down side position for transportation.
  - **After skin contact**: Immediately wash with water and soap and rinse thoroughly.
  - **After eye contact**: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing**: Do not induce vomiting; call for medical help immediately. If symptoms persist consult a doctor.
  - **Information for doctor**:
    - **Most important symptoms and effects, both acute and delayed**: No further relevant information available.
    - **Indication of any immediate medical attention and special treatment needed**: No further relevant information available.

### 5 Firefighting measures

- **Suitable extinguishing agents**: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents**: Water with full jet
- **Special hazards arising from the substance or mixture**
  Formation of toxic gases is possible during heating or in case of fire.
  In case of fire, the following can be released:
  - Nitrogen oxides (NOx)
  - Carbon monoxide (CO)
  Under certain fire conditions, traces of other toxic gases cannot be excluded.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Mount respiratory protective device.
  - Avoid formation of dust.
  - Wear protective equipment. Keep unprotected persons away.

- Environmental precautions:
  - Do not allow to enter sewers/surface or ground water.

- Methods and material for containment and cleaning up:
  - Ensure adequate ventilation.

- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protective equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    - Open and handle receptacle with care.
    - Ensure good ventilation/exhaustion at the workplace.
    - Prevent formation of dust.

- Information about fire - and explosion protection:
  - Keep ignition sources away - Do not smoke.

- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles:
    - No special requirements.
  - Information about storage in one common storage facility:
    - Not required.
  - Further information about storage conditions:
    - Keep container tightly sealed.
  - Specific end use(s):
    - No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities:
  - No further data; see section 7.

- Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    - Not required.

- Additional information:
  - As a basis for the production of this document, the most current valid lists were used.

- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      - Keep away from food, beverages and petfood. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
Trade name: **IonLic DMHII**

Avoid contact with the eyes and skin.

- **Respiratory protection:**
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**
  Protective gloves

- **Gloves material:**
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Eye protection:**
  Tightly sealed goggles

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Liquid</td>
</tr>
<tr>
<td>Colour: Light yellow</td>
</tr>
<tr>
<td>Odour: Characteristic</td>
</tr>
<tr>
<td>Odour threshold: Not determined.</td>
</tr>
<tr>
<td>pH-value: Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Change in condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/Melting range: Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range: Undetermined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash point:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Flammability (solid, gaseous): Product is not flammable.</th>
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<thead>
<tr>
<th>Ignition temperature: Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature: Not determined.</td>
</tr>
<tr>
<td>Self-igniting: Not determined.</td>
</tr>
<tr>
<td>Danger of explosion: Product does not present an explosion hazard.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explosion limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower: Not determined.</td>
</tr>
<tr>
<td>Upper: Not determined.</td>
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</tbody>
</table>

| Vapour pressure: Not applicable.                       |

<table>
<thead>
<tr>
<th>Density:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density Not determined.</td>
</tr>
<tr>
<td>Vapour density: Not applicable.</td>
</tr>
</tbody>
</table>
Trade name: IonLic DMHII

- Evaporation rate: Not applicable.
- Solubility in / Miscibility with water: Insoluble.
- Segregation coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.
  To avoid thermal decomposition do not overheat.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - Primary irritant effect:
    - On the skin: Irritant to skin and mucous membranes.
    - On the eye: Irritating effect.
  - Sensitization: No sensitizing effects known.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
13 Disposal considerations

- Waste treatment methods
  - Recommendation

  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border):
  - ADR/RID class: -

- Maritime transport IMDG:
  - IMDG Class: -
  - Marine pollutant: No

- Air transport ICAO-TI and IATA-DGR:
  - ICAO/IATA Class: -
  - UN "Model Regulation": -
  - Special precautions for user: Not applicable.
  - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15 Regulatory information

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  - ICAO: International Civil Aviation Organization
  - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)