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

· Product identifier
· Trade name: IonLic EMII
· CAS Number: 35935-34-3
· 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
  H315Causes skin irritation.
  H319Causes serious eye irritation.
  H335May 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)
Trade name: IonLic EMII

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

- 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
  35935-34-3 1-ethyl-3-methylimidazolium 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.
Trade name: **IonLic EMII**

(Contd. of page 2)

### 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.
Safety data sheet according to 1907/2006/EC, Article 31

Trade name: IonLic EMII

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

**Information on basic physical and chemical properties**

- **General Information**
  - **Appearance:**
    - Form: Crystalline powder
    - Colour: Light brown
    - Odour: Characteristic
    - Odour threshold: Not determined.
  - **pH-value:** Not applicable.
  - **Change in condition**
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: Undetermined.
  - **Flash point:** Not applicable.
  - **Flammability (solid, gaseous):** Product is not flammable.
  - **Ignition temperature:** Not applicable.
  - **Decomposition temperature:** Not determined.
  - **Self-igniting:** Not determined.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Explosion limits:**
    - Lower: Not determined.
    - Upper: Not determined.
  - **Vapour pressure:** Not applicable.
  - **Density:** Not determined.
  - **Relative density:** Not determined.
  - **Vapour density:** Not determined.
Safety data sheet
according to 1907/2006/EC, Article 31

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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.

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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 EMII

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)