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

- Product identifier
- Trade name: **TCO30-10/LI**
- CAS Number: 65997-17-3
- EINECS Number: 266-046-0
- Relevant identified uses of the substance or mixture and uses advised against: Transparent Conducting Oxide Coated Glass
- Application of the substance / the preparation
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: SOLARONIX SA
    Rue de l'Ourette 129, CH-1170 Aubonne, Switzerland
    www.solaronix.com
    T +41 21 821 22 80
    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: The substance is not classified according to the CLP regulation.
  - Information concerning particular hazards for human and environment: Not applicable.

- Label elements
  - Labelling according to Regulation (EC) No 1272/2008: Void
  - Hazard pictograms: Void
  - Signal word: Void
  - Hazard statements: Void
  - 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 65997-17-3 Fibrous Glass
  - Identification number(s)
  - EINECS Number: 266-046-0
- Additional information:
  - TCO30-10/LI is a 3 mm thick low iron sodalime glass coated on one side with a conductive fluorine doped tin oxide layer, having a sheet resistivity of 10 Ω/sq.
4 First aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After excessive inhalation:** Supply fresh air; consult a doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **After swallowing:** 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.
- **Special hazards arising from the substance or mixture**
  - No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Mount respiratory protective device.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**
  - No dangerous substances are released.
  - 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** No special measures required.
  - **Information about fire - and explosion protection:** No special measures required.
- **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:** None.
- **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:
  The usual precautionary measures are to be adhered to when handling chemicals.
· 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: Solid
  Colour: Colourless
  Odour: Odourless
  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.
Trade name: **TCO30-10/LI**

- **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 at 20°C:** 2.45 g/cm³
- **Relative density:** Not determined.
- **Vapour density:** Not applicable.
- **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with water:** Insoluble.
- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not applicable.
  - **Kinematic:** Not applicable.
- **Solvent content:**
  - **Organic solvents:** 0.0 %
  - **VOC (EC):** 0.00 %
- **Solids content:** 100.0 %
- **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.
- **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:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
  - **Primary irritant effect:**
    - **On the skin:** No irritant effect.
    - **On the eye:** No irritant effect.
    - **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.

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: Generally not hazardous for water.
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
  - Recommendation: Smaller quantities can be disposed of with household waste.
- **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: Classe: Cannot be considered as being part of the 4.3 classification (*)
  - Marine pollutant: No
- **Air transport ICAO-TI and IATA-DGR:**
  - ICAO/IATA Class: Classe: Cannot be considered as being part of the 4.3 classification (*)
  - 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
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)