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

- **Product identifier**
- **Trade name:** Elcocarb P/SP

- **Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the preparation:** Carbon Paste For Conductive Layers.

- **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:**
    - France (ORFILA 24h/24) - Tel : +33 (0)1 45 42 59 59
    - Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24)
    - EU Tel : 112

## 2 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008 :** The product is not classified according to the CLP regulation.
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC :** Not applicable.

- **Information concerning particular hazards for human and environment:**
  - The product does not have to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

- **Classification system:**
  - The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**
  - **Labelling according to EU guidelines:**
    - Observe the general safety regulations when handling chemicals.
    - The product has not been classified and marked in accordance with EU Directives / respective national laws.
    - 2008/58/CE (30eme ATP) ; 2009/2/CE (31eme ATP) ; 2006/8/CE
  - **Special labelling of certain preparations:**
    - Safety data sheet available for professional user on request.
  - **Other hazards**
    - **Results of PBT and vPvB assessment**
      - **PBT:** Not applicable.
      - **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**
  - Mixture: consisting of the following components.
  - Carbon Paste For Conductive Layers.
### 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:** Not required.

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

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**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:
    The product does not contain any significant quantities of materials with critical values that have to
    be monitored at the workplace.
  · 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: Not required.
  · Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the
    preparation.
  · Gloves material:
    The selection of suitable gloves does not only depend on the material, but also on further marks of
    quality which may vary from manufacturer to manufacturer. As the product is a preparation of
    several substances, the resistance of the glove material can not be calculated in advance and has
    therefore to be checked before use.
· Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      Form: Pasty
      Colour: According to product specification
    · Odour:
      Characteristic
    · Odour threshold: Not determined.
· pH-value: Not determined.
34.1.15

- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- Flash point: > 64°C
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: Not applicable.
- Decomposition temperature: Not determined.
- Self-igniting: Product is not self igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapour pressure at 20°C: 59 hPa
- Density: Not determined.
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Segregation coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 0.1 %
  - 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 eyes:** No irritant effect.
    - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
    - The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
    - When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### 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:**
      - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
      - 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.
    - **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

- **UN-Number**
  - ADR, ADN, IMDG, IATA: Void
- **UN proper shipping name**
  - ADR, ADN, IMDG, IATA: Void
### Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class: Void

### Packing group
- ADR, IMDG, IATA
- Void

### Environmental hazards:
- Marine pollutant: No

### Special precautions for user
- Not applicable.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable.

### UN "Model Regulation"
- -

### Regulatory information

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

### 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.

**Relevant phrases**
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.

**Abbreviations and acronyms:**
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- 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)
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals