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

- Product identifier
- Trade name: **Platisol T**
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation: Platinum Catalyst Precursor Paint
- 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
  - GHS02 flame
  Flam. Liq. 3 H226 Flammable liquid and vapour.
  - GHS05 corrosion
  Eye Dam. 1 H318 Causes serious eye damage.
  - GHS07
  STOT SE 3 H336 May cause drowsiness or dizziness.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  - Xi: Irritant
  R41: Risk of serious damage to eyes.
  R10-67: Flammable. Vapours may cause drowsiness and dizziness.

- Information concerning particular hazards for human and environment:
The product has to be labelled in the latest valid version according to the calculation procedure of the "General Classification guideline for preparations of the EU". Has a narcotizing effect.

- 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 Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)
Trade name: Platisol T

- Hazard pictograms

GHS02  GHS05  GHS07

- Signal word Danger

- Hazard-determining components of labelling:
  - propan-1-ol

- Hazard statements
  - H226 Flammable liquid and vapour.
  - H318 Causes serious eye damage.
  - H336 May cause drowsiness or dizziness.

- Precautionary statements
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER or doctor/physician.
  - 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: Mixtures
- Description: consisting of the following components.

- Dangerous components:

| CAS: 71-23-8 | propan-1-ol | Xi R41; F R11 | Flam. Liq. 2, H225; Eye Dam. 1, H318; STOT SE 3, H336 |
| EINECS: 200-746-9 | | R67 | 50-100% |

- Additional information: For the wording of the listed risk phrases, refer to section 16.

4 First aid measures
- Description of first aid measures
  - 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. Then consult a doctor.
  - After swallowing: If symptoms persist consult a doctor.
Trade name: Platisol T

(Contd. of page 2)

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
  - Wear protective equipment. Keep unprotected persons away.
· Environmental precautions:
  - Dilute with plenty of water.
  - 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
  - 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 precautions are necessary if used correctly.
· Information about fire - and explosion protection:
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
· 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.

(Contd. on page 4)
8 Exposure controls/personal protection

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

· Control parameters

<table>
<thead>
<tr>
<th>Ingredients with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>71-23-8 propan-1-ol (50-100%)</td>
</tr>
<tr>
<td>WEL (Great Britain)</td>
</tr>
<tr>
<td>Sk</td>
</tr>
</tbody>
</table>

· 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:
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid all contact with the eyes.
· 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:

Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties
· General Information
· Appearance:
| Form: | Liquid |
| Colour: | Orange |
| Odour: | Characteristic |
| Odour threshold: | Not determined. |
· pH-value: Not determined.
· Change in condition
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 96°C |
· Flash point: 23°C
### 9 Flammability and combustion characteristics
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 360°C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:**
  - Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
  - **Explosion limits:**
    - Lower: 2.1 Vol %
    - Upper: 13.5 Vol %
  - **Vapour pressure at 20°C:** 19 hPa
  - **Density:** Not determined.
  - **Relative density:** Not determined.
  - **Vapour density:** Not determined.
  - **Evaporation rate:** Not determined.
  - **Solubility in / Miscibility with water:** Fully miscible.
  - **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **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:**
  - **LD/LC50 values relevant for classification:**
    - **71-23-8 propan-1-ol**
      - Oral LD50: 1870 mg/kg (rat)
      - Dermal LD50: 5040 mg/kg (rabbit)
  - **Primary irritant effect:**
  - **On the skin:** No irritant effect.
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 01.05.2011  Version number 1  Revision: 01.05.2011

Trade name: **Platisol T**

- **On the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following hazards according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  Irritant

### 12 Ecological information

- **Toxicity**
  - **Acquatic 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**
  - **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.
  - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- **Land transport ADR/RID (cross-border):**
  - **ADR/RID class:** 3 (F1) Flammable liquids.
  - **Danger code (Kemler):** 30
  - **UN-Number:** 1993
  - **Packaging group:** III

(Contd. on page 7)
Trade name: **Platisol T**

| **Hazard label:** | 3 |
| **UN proper shipping name:** | 1993 FLAMMABLE LIQUID, N.O.S. (PROPANO (PROPYL ALCOHOL, NORMAL)), special provision 640E |
| **Limited quantities (LQ):** | 5L |
| **Transport category:** | 3 |
| **Tunnel restriction code:** | D/E |

**Maritime transport IMDG:**

| **IMDG Class:** | 3 |
| **UN Number:** | 1993 |
| **Label:** | 3 |
| **Packaging group:** | III |
| **EMS Number:** | F-E,S-E |
| **Marine pollutant:** | No |
| **Proper shipping name:** | FLAMMABLE LIQUID, N.O.S. (PROPANO (PROPYL ALCOHOL, NORMAL)) |

**Air transport ICAO-TI and IATA-DGR:**

| **ICAO/IATA Class:** | 3 |
| **UN/ID Number:** | 1993 |
| **Label:** | 3 |
| **Packaging group:** | III |
| **Proper shipping name:** | FLAMMABLE LIQUID, N.O.S. (PROPANO (PROPYL ALCOHOL, NORMAL)) |

**Special precautions for user**

- **Warning:** Flammable liquids.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

**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**

- H225 Highly flammable liquid and vapour.
- H318 Causes serious eye damage.
- H336 May cause drowsiness or dizziness.
- R11 Highly flammable.
- R41 Risk of serious damage to eyes.
### Trade name: Platisol T

**R67** Vapours may cause drowsiness and dizziness.

**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
- **LC50:** Lethal concentration, 50 percent
- **LD50:** Lethal dose, 50 percent