Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product name: Sicrys™ I50TM-119
Trade name: Sicrys™ I50TM-119
Product type: Silver ink

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.3 Details of the supplier of the safety data sheet
P.V. Nano Cell Ltd.
P.O.Box 236, Migdal Ha’Emek, Israel 23100
Phone: +972-4-6546881
Fax: +972-4-6546880

E-mail address of person responsible for this SDS: N/A

1.4 Emergency telephone number
Emergency telephone number (with hours of operation):
National Information & Response Center: in Israel *6911 or 08-9253321
Outside Israel: +972 8 925 3321
infocenter@sviva.gov.il

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC

<table>
<thead>
<tr>
<th>Product name</th>
<th>EU Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sicrys™ I50TM-119</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

2.2 Label elements
Labelling in accordance with 1999/45 (DPD)
Hazard symbol(s): Not required
Risk phrase(s): Not classified
Safety phrase(s): Not required

2.3 Other hazard
None
Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation:

<table>
<thead>
<tr>
<th>Product/Ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>EU Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>CAS number: 7440-22-4 EC number: 231-131-3</td>
<td>48-52</td>
<td>Not classified</td>
</tr>
<tr>
<td>Triethylene glycol monomethyl ether (TGME)</td>
<td>CAS number: 112-35-6 EC number: 203-962-1</td>
<td>48-52</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8. See section 16 for the full text of the R-phrases declared above.

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Skin contact: In case of contact with skin wash off immediately with soap and plenty of water, and seek medical advice.

Inhalation: Remove from exposure, lie down. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Ingestion: Wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Not suitable: N/A

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**6.2 Environmental precautions**
Prevent entry into waterways, sewers, basements or confined areas.

**6.3 Methods and materials for containment and cleaning up**
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

Large spill: As for small spill

**6.4 Reference to other sections**
See Section 13 for additional waste treatment information.

**Section 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**
Handling: Avoid inhalation of vapour or mist. Avoid contact with skin and eyes. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Hygiene Measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

**7.2 Conditions for safe storage, including any incompatibilities**
Keep container tightly closed. Keep in a dry and cool place away from direct light.

**7.3 Specific end use(s): N/A**

**Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational exposure limit values:**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Occupational exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>ACGIH-TLV 0.1 mg/m³ (TWA), (dust, fume)</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Engineering Measures
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Measures
Respiratory protection: Suitable respirator. Be sure to use an approved/certified or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Eye/face protection: Wear protective safety glasses, goggles.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Hand protection: Wear protective disposable gloves to prevent skin exposure.

Environmental exposure controls: N/A

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance: Opaque greenish/grey liquid
Odour: N/A
Odour threshold: N/A
pH: N/A
Melting point/Freezing point: N/A
Initial boiling point/boiling range: ~ N/A
Flash point: N/A
Evaporation rate (butyl acetate=1): N/A
Flammability: N/A
Upper/lower flammability or explosive limits: LEL: N/A
Vapor pressure: N/A
Vapor density (Air=1): N/A
Relative Density(H2O=1): N/A
Solubility(ies): N/A
Partition coefficient Octanol/Water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A
Explosive properties: N/A
Oxidizing properties: N/A

9.2 Other information
N/A

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity
No specific test data related to reactivity available for this product or its ingredients
10.2 Chemical stability
The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
Not available

10.5 Incompatible materials
Strong oxidizing agents.

10.6 Hazardous Decomposition products
Not available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene glycol monomethyl ether</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;10.50 mg/kg – 96h</td>
</tr>
<tr>
<td>Silver</td>
<td>Oral</td>
<td>Mouse</td>
<td>100 mg/kg</td>
</tr>
</tbody>
</table>

Irritation: N/A
Corrosivity: N/A
Sensitization: N/A
Repeated dose toxicity: N/A
Carcinogenicity: N/A
Mutagenicity: N/A
Toxicity for reproduction: N/A
Other information: Not available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity
N/A

12.2 Persistence and Degradability
N/A

12.3 Bioaccumulative potential
N/A

12.4 Mobility in soil
N/A

12.5 Results of PBT and vPvB assessment
Not applicable

12.6 Other adverse effects
N/A

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing
Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: TRANSPORT INFORMATION

14.1 Un number
ADR/RID: -  IMDG: -  IATA: -

14.2 Proper shipping name
ADR/RID: Not regulated
IMDG: Not regulated
IATA: Not regulated

14.5 Environmental hazard
ADR/RID: -  IMDG: -  IATA: -

14.6 Special precautions for user
Not available

Additional information
ADR/RID: -  IMDG: -  IATA: -

14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code
Not available

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Directives 67/548/EEC and 1999/45/EC (including amendments)
EU Regulation(EC) No.1907/2006 (REACH)
15.2 Chemical safety assessment
N/A

Section 16: OTHER INFORMATION

Training advice: Before using/handling the product one must read carefully present MSDS.

Recommended restriction: N/A

Key Legend Information:
ACGIH- American Conference of Governmental Industrial Hygienists
OSHA- Occupational Safety and Health Administration
NTP- National Toxicology program
IARC- International Agency for Research on Cancer
ND- Not Determined
N/A- Not available
R-phrases- Risk phrases
S-phrases- Safety phrases

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Version no. 2

To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.