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

1.1 Product identifier
Product name: Sicrys™ P75DB-1
Trade name: Sicrys™ P75DB-1
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™ P75DB-1</td>
<td>Xi; R36</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements and R-phrases mentioned in this Section, see Section 16.

2.2 Label elements
Labelling in accordance with 1999/45 (DPD)
Hazard symbol(s):

⚠️

Warning

Risk phrase(s):
Xi: Irritant
R36: Irritant to eyes

Hazard statement(s):
H319: Causes serious eye irritation
Precautionary statement(s):
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

2.3 Other hazard
None

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance/preparation</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>70-80</td>
<td>Not classified</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether (DGBE)</td>
<td>CAS number: 112-34-5 EC number: 203-961-6</td>
<td>20-30</td>
<td>Xi; R36</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

Eyes contact: In case of contact with eyes, rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (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 firefighters: Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information
No further information.

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. For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Large spill: As for small spill

6.4 Reference to other sections
See Section 13 for disposal information.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s): A part from the uses mentioned in section 1.2 no other specific uses are stipulated.

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
Person Protective measures
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government
standards such as NIOSH (US) or CEN (EU).

**Eye/face protection:** Wear protective safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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

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

**Environmental exposure controls:** Do not let product enter drains.

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### 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:** ~ -68°C (Solvent)  
**Initial boiling point/boiling range:** ~ 231°C (Solvent)  
**Flash point:** 99°C, - closed cup (Solvent)  
**Evaporation rate (butyl acetate=1):** N/A  
**Flammability:** N/A  
**Upper/lower flammability or explosive limits:** LEL: 0.9% (V) (Solvent); UEL: 6.2% (V) (Solvent)  
**Vapor pressure:** 40 hPa @ 130°C (Solvent)  
**Vapor density (Air=1):** 5.6 (Solvent)  
**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

**Surface tension:** 32.8 mN/m at 20°C (Solvent)

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### Section 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available

#### 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

Heat, flames and sparks. May form peroxides of unknown stability.
10.5 Incompatible materials
Strong oxidizing agents, strong acids and strong bases. Light metals.

10.6 Hazardous Decomposition products
Not available
In the event of fire: see section 5

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>Diethyleneglycol monobutyl ether</td>
<td>LD50, Oral</td>
<td>Rat</td>
<td>&gt;7.000 mg/kg</td>
</tr>
<tr>
<td>Silver</td>
<td>Oral</td>
<td>Mouse</td>
<td>100 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/Irritation:
Skin – Rabbit
Result: Mild skin irritation – 1h
(OECD Test Guideline 404)

Serious eye damage/eye irritation:
Eyes – Rabbit
Result: Irritating to eyes
(OECD Test Guideline 405)

Corrosivity: N/A

Sensitization: N/A

Repeated dose toxicity: N/A

Carcinogenicity: N/A

Mutagenicity: N/A

Reproductive toxicity: N/A.

Other information: Not available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethyleneglycol monobutyl ether</td>
<td>LC50, Static</td>
<td>Fish – Lepomis macrochirus</td>
<td>1.3 mg/kg – 96h</td>
</tr>
<tr>
<td>Diethyleneglycol monobutyl ether</td>
<td>EC50, Static</td>
<td>Algae – Desmodesmus subspicatus</td>
<td>100 mg/l – 96h</td>
</tr>
<tr>
<td>Diethyleneglycol monobutyl ether</td>
<td>LC50</td>
<td>Bacteria – Pseudomonas putida</td>
<td>1.170 mg/l – 16h</td>
</tr>
</tbody>
</table>
12.2 Persistence and Degradability

Biodegradability:

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol mono</td>
<td>Aerobic – exposure time 28 d</td>
<td>91.7% - Readily biodegradable</td>
</tr>
<tr>
<td>butyl ether</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential
N/A

12.4 Mobility in soil
N/A

12.5 Results of PBT and vPvB assessment
N/A

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
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

Full text H-statements referred to under sections 2 and 3.
Eye Irrit. Eye irritation
H319 Causes serious eye irritation

Full text of R-phrases referred to under sections 2 and 3.
Xi Irritant
R36 Irritant to eyes.

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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