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Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

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

**1.1 Product identifier**

**Product name:** Sicrys™ I20DM-206

**Trade name:** Sicrys™ I20DM-206

**Product type:** Silver ink

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

**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](mailto: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**

Product name	EU Classification
Sicrys™ I20DM-206	Xn; R63, Repr.Cat.3

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):**

Xn: Harmful

R63: Possible risk to harm to the unborn child.

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### Hazard statement(s):

H361d: Suspected of damaging the unborn child

### Precautionary statement(s):

P281: Use personal protective equipment as required

### 2.3 Other hazard

None

## Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance/preparation:

Product/ Ingredient name	Identifiers	%	EU Classification
Silver	CAS number: 7440-22-4 EC number: 231-131-3	18-22	Not classified
Diethylene glycol monomethyl ether (DGME)	CAS number: 111-77-3 EC number: 203-906-6	78-82	Xn; R63; Repr.Cat.3

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

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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**

Use water spray to cool unopened containers.

## **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. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations.

### **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

**Personal Protection in Case of Large Spill**: Safety glasses. Full suit. Suitable respirator. Boots. Gloves. A self- contained breathing apparatus should be used to avoid inhalation of the product.

### **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 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. Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

**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**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas. Hygroscopic.

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**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:

Ingredient name	Occupational exposure limits
Silver	ACGIH-TLV 0.1 mg/m <sup>3</sup> (TWA), (dust, fume)

#### 8.2 Exposure controls

##### Engineering Measures

Use process enclosures, local exhaust ventilation, or others 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.

##### Person 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: Ether-like

Odour threshold: N/A

pH: N/A

Melting point/Freezing point: ~ -70°C (Solvent)

Initial boiling point/boiling range: ~ 194°C (Solvent)

Flash point: 87°C, - closed cup (Solvent)

Evaporation rate (butyl acetate=1): N/A

Flammability: N/A

Upper/lower flammability or explosive limits: LEL: 1.38% (V) (Solvent) ; UEL: 22.7% (V) (Solvent)

Vapor pressure: 0.3 hPa @ 20°C (Solvent)

Vapor density (Air=1): 4.15 (Solvent)

Relative Density(H<sub>2</sub>O=1): N/A

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

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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 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.

### **10.5 Incompatible materials**

Strong oxidizing agents, strong acids and strong bases.

### **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:**

<b>Product/ingredient name</b>	<b>Test</b>	<b>Species</b>	<b>Dose</b>
Diethylene glycol monomethyl ether	LD50, Oral	Rat	>7.000 mg/kg
Silver	Oral	Mouse	100 mg/kg

**Irritation:** N/A

**Corrosivity:** N/A

**Sensitization:** N/A

**Repeated dose toxicity:** N/A

**Carcinogenicity:** N/A

**Mutagenicity:** N/A

**Toxicity for reproduction:** Possible risk of congenital malformation in the fetus. Suspected human reproductive toxicant. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

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**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

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**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**

**Full text H-statements referred to under sections 2 and 3.**

H361d Suspected of damaging the unborn child.

Repr. Reproductive toxicity

**Full text of R-phrases referred to under sections 2 and 3.**

Xn Harmful

R63 Possible risk of harm to the unborn child.

Repr.Cat.3 Toxic to Reproduction Category 3

**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. 1

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.