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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™ I60PM-116

**Trade name:** Sicrys™ I60PM-116

**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**

Flammable liquids (Category 3), H226

Specific target organ toxicity – single exposure (Category 3), Central nervous system, H336

Product name	EU Classification
Sicrys™ I60PM-116	R10, R67, Flam. Liq.3, STOT SE 3, H226, H336

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

R10: Flammable

R63: Possible risk/harm to unborn child

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R67: Vapors may cause drowsiness and dizziness.

### Hazard statement(s):

H226: Flammable liquid and vapor

H336: May cause drowsiness or dizziness

H361d: Suspected of damaging the unborn child

### Precautionary statement(s):

P261: Avoid breathing vapors.

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	55-65	Not classified
Propylene Glycol Monomethyl Ether	CAS number: 107-98-2 EC number: 203-539-1	10-20	R10, R67, Flam. Liq.3, STOT SE 3, H226, H336
Propylene Glycol Monomethyl Ether Acetate	CAS number: 108-65-6 EC number: 203-603-9	4-12	Flam. Liq. 3, H226
Diethylene Glycol Monomethyl Ether	CAS number: 111-77-3 EC number: 203-906-6	5-10	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

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**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.

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### **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

Flash back possible over considerable distance. Container explosion may occur under fire conditions. Vapors may form explosive mixture with air. May form peroxides of unknown stability.

### **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. Vapors can accumulate in low areas. 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

**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 exposure – obtain special instructions before use. Avoid inhalation of vapour or mist. Avoid contact with skin and eyes. Wash thoroughly after handling. Handle in accordance with good

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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.  
Air sensitive. Forms explosive peroxides on prolonged storage. May form peroxides on contact with air.  
Storage class (TRGS 510): Flammable liquids

**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 other engineering controls to keep airborne levels below recommended 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:** Wear a suitable respirator. Be sure to use approved/certified or equivalent equipment. 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, goggles.

**Skin protection:** Use impervious clothing. Use flame retardant antistatic protective clothing. Wear appropriate long-sleeved flame retardant antistatic protective clothing to minimize skin contact. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance.

**Hand protection:** Wear protective disposable gloves to prevent skin exposure. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/86/EEC and the standard EN 374 derived from it.

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### Full contact

Material: butyl-rubber

Minimum layer thickness: 0.3mm

Break through time: > 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647)

### Splash contact

Material: Nature latex/chloroprene

Minimum layer thickness: 0.6mm

Break through time: 37 min

Material tested: Lapren® (KCL 706 / Aldrich Z677558)

This recommendation is advisory only.

### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance: Opaque greenish/grey liquid

Odour: ester-like

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(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

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

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### **10.2 Chemical stability**

May form peroxides on prolonged storage. Stable under normal handling and storage conditions described in Section 7.

### **10.3 Possibility of hazardous reactions**

No data available

### **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>
Propylene Glycol Monomethyl Ether	LD50, Oral	Mouse	11.700 mg/kg
Propylene Glycol Monomethyl Ether Acetate	LD50, Oral	Rat	5,155 mg/kg
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:** N/A

**Other information:** May cause drowsiness or dizziness

## **Section 12: ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

N/A

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### **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**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Packing**

Dispose of as unused product.

## **Section 14: TRANSPORT INFORMATION**

### **14.1 Un number**

ADR/RID: - 1993

IMDG: - 1993

IATA: - 1993

### **14.2 Proper shipping name**

ADR/RID: Flammable liquid, n.o.s.

IMDG: Flammable liquid, n.o.s.

IATA: Flammable liquid, n.o.s.

### **14.3 Transport hazard class(es)**

ADR/RID: - 3

IMDG: - 3

IATA: - 3

### **14.4 Packaging group**

ADR/RID: - III

IMDG: - III

IATA: - III

### **14.5 Environmental hazard**

ADR/RID: - no

IMDG: - no

IATA: - no

### **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.**

Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapor
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H360D	May damage the unborn child
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity – single exposure

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

T	Toxic
R10	Flammable
R37/38	Irritating to respiratory system and skin
R41	Risk of serious damage to eyes
R61	May cause harm to the unborn child
R67	Vapors may cause drowsiness and dizziness
Repr.Cat.2	Toxic to Reproduction Category 2

**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



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S-phrases- Safety phrases

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