


<b>SAFETY DATA SHEET</b>	
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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™ I Au20W-1

**Trade name:** Sicrys™ I Au20W-1

**Product type:** Gold 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:**

**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

Product name	EU Classification
Sicrys™ I Au20W-1	Xn; R22

**2.2 Label elements**

Labelling in accordance with 1999/45 (DPD)

**Hazard symbol(s):**




Warning

**Risk phrase(s):**

Xn: Harmful

R22: Harmful if swallowed.

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**Hazard statement(s):**

H302: Harmful if swallowed.

H373: May cause damage to organs (kidney) through prolonged or repeated exposure if swallowed.

**Safety phrase(s):**

S02: Keep out of the reach of children.

S46: If swallowed, seek medical advice immediately and show this container or label.

**2.3 Other hazard**

None

**Section 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/preparation:**

Product/ Ingredient name	Identifiers	%	EU Classification
Gold	CAS number: 7440-57-5 EC number: 231-165-9	15 - 25	Not classified
Water, De-ionized	CAS number: 7732-18-5 EC number: 231-791-2	20 - 70	Not classified
Ethylene Glycol	CAS number: 107-21-1 EC number: 203-473-3	10 - 40	Xn; R22
Block Copolymer	Proprietary	0 - ≤5	Acute Tox.4, Aquatic Acute 1, Aquatic Chronic 1, Carc. 1A, Skin Corr. 1

**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 immediately with water. Get medical attention if irritation occurs.


**Skin contact:** Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with water. Get medical attention if irritation develops.

**Inhalation:** Remove from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

**Ingestion:** If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give a glassful of water by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

Harmful if swallowed. Causes eye irritation. May cause irritation to skin and respiratory system. May be harmful if inhaled and if absorbed through skin.

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#### **4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** No specific antidote, medical staff contacts Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### **Section 5: FIRE-FIGHTING MEASURES**

#### **5.1 Extinguishing media**

Suitable: Use an extinguishing agent suitable for surrounding fire.

Not suitable: N/A

#### **5.2 Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating and toxic fumes.

#### **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. Ventilate area of spill. Avoid breathing fumes.

#### **6.2 Environmental precautions**

Do not let this chemical enter the environment. Keep away from drains, surface and ground water.

#### **6.3 Methods and materials for containment and cleaning up**

Absorb the chemical onto sand, vermiculite, or any other non-combustible absorbent, and collect into containers for later 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 1 for emergency contact information.

### **Section 7: HANDLING AND STORAGE**


#### **7.1 Precautions for safe handling**

**Handling:** Do not breathe vapors. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash thoroughly after handling.

**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**

**Storage:** Keep containers tightly closed, in a dry, cool and well ventilated place, away from direct

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light. Do not store together with strong oxidizing agents, strong acids, strong bases, aldehydes, aluminum, acid chlorides and halogens.  
Ethylene glycol is hygroscopic.

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

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

**8.1 Control parameters**

**Occupational exposure limit values:**

Ingredient name	Occupational exposure limits
Ethylene Glycol	ACGIH-TLV 100 mg/m <sup>3</sup> (CEIL), aerosol

**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.

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:** Not available

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance: Black 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: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative Density: 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

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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**

Heat, sparks, open flame.

**10.5 Incompatible materials**

Strong oxidizing agents, strong acids, strong bases, aldehydes, aluminum, acid chlorides and halogens.

**10.6 Hazardous Decomposition products:**

Not available

**Section 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity:**

Product/ingredient name	Test	Species	Dose
Ethylene Glycol	LD50, oral	Rat	4700 mg/kg

**Irritation:** Causes eye irritation. May cause irritation to skin and respiratory system.

**Corrosivity:** N/A

**Sensitization:** N/A

**Repeated dose toxicity:** N/A

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Mutagenicity:** N/A

**Toxicity for reproduction:** N/A


**Other effects:**

Harmful if swallowed. May be harmful if inhaled and if absorbed through skin.

**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**

Soil/water partition coefficient (Koc): 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

**14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4 Packing group**

ADR/RID: -

IMDG: -

IATA: -

**14.5 Environmental hazard**

ADR/RID: -

IMDG: -


IATA: -

**14.6 Special precautions for user**

Not available

**14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code**

Not available

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**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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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.