


SAFETY DATA SHEET	
Sicrys™ IC50DM-7	Page 1 of 8

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™ IC50DM-7

Trade name: Sicrys™ IC50DM-7

Product type: Copper 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

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™ IC50DM-7	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.

SAFETY DATA SHEET



Sicrys™ IC50DM-7

Page 2 of 8

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
Copper	CAS number: 7440-50-8 EC number: 231-159-6	45-58	Not classified
Diethylene glycol monomethyl ether (DGME)	CAS number: 111-77-3 EC number: 203-906-6	42-55	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

SAFETY DATA SHEET	
Sicrys™ IC50DM-7	Page 3 of 8

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

Copper 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.

SAFETY DATA SHEET	
Sicrys™ IC50DM-7	Page 4 of 8

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
Copper	ACGIH-TLV 0.2 mg(Cu)/m ³ (TWA), fume ACGIH-TLV 1 mg(Cu)/m ³ (TWA), dust and mist

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: Dark red (Burgundy) 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(H₂O=1): N/A

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

SAFETY DATA SHEET



Sicrys™ IC50DM-7

Page 5 of 8

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

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:

Product/ingredient name	Test	Species	Dose
Diethylene glycol monomethyl ether	LD50, Oral	Rat	>7.000 mg/kg
Copper	LD50, oral	Mouse	>5000 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

SAFETY DATA SHEET



Sicrys™ IC50DM-7

Page 6 of 8

human reproductive toxicant. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

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: -

SAFETY DATA SHEET



Sicrys™ IC50DM-7

Page 7 of 8

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

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.

SAFETY DATA SHEET



Sicrys™ IC50DM-7

Page 8 of 8