


SAFETY DATA SHEET	
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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™ RI-6DM-3

Trade name: Sicrys™ RI-6DM-3

Product type: Carbon black 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 Regulation (EC) No 1272/2008

Product name	EU Classification
Sicrys™ RI-6DM-3	Repr. 2, H361d Aquatic (acute and chronic) Cat.3, H402, H412

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 Regulation (EC) 1272/2008

Hazard symbol(s):



Warning

Hazard statement(s):

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H361d: Suspected of damaging the unborn child
H402: Harmful to aquatic life
H412: Harmful to aquatic life with long lasting effects

Precautionary statement(s):

P281: Use personal protective equipment as required
P308 + P313: If exposed or concerned: Get medical advice/ attention
P273: Avoid release to the environment
P391: Collect spillage
P501: Dispose of contents/container to an approved waste disposal plant

2.3 Other hazard

None

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation:

Product/ Ingredient name	Identifiers	%	EU Classification
Carbon black	CAS number: 1333-86-4 EC number: 215-609-9	2-4	Not classified
Diethylene glycol monomethyl ether (DGME)	CAS number: 111-77-3 EC number: 203-906-6	90-97	Repr. 2, H361d
Polymer with quaternized ammonium groups	Proprietary	≤1.5	Aquatic (acute and chronic) Cat.1, H400, H410

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

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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

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

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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.

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

Observe national regulations.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006 :

Ingredient name	Occupational exposure limits
Carbon black	0.5 mg/m ³ (respirable) 2 mg/m ³ (inhalable)
Diethylene glycol monomethyl ether (DGME)	Contains no substances with occupational exposure limit values
Polymer with quaternized ammonium groups	Contains no substances with occupational exposure limit values

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: In case of insufficient ventilation, wear suitable respiratory equipment. Wear an approved respirator (e.g., an organic vapor respirator) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

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

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9.1 Information on basic physical and chemical properties

Appearance: Black 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
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

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:

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Product/ingredient name	Test	Species	Dose
Diethylene glycol monomethyl ether	LD50, Oral	Rat	>7.000 mg/kg
Carbon black	LD50, Oral	Rat	>8.000 mg/kg
Polymer with quaternized ammonium groups	LD50, Oral	Rat	>2.000 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.

Other information: Not available**Section 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Product/ingredient name	Test *	Species	Dose
Diethylene glycol monomethyl ether	ErC50 – 96h	Algea	>1 mg/L
Carbon black	ErC50 – 72h	Algea	>10 mg/L
Polymer with quaternized ammonium groups	ErC50 – 72h	Algea	0.25 mg/L

* OECD Test Guideline 201

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

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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

U.S. DOT: Not regulated

Canada TDG: 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

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with 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

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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.