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EPOCYL[™] NC R1MY-02 Material Safety Data Sheet

1. Identification of the product and the company

Trade Name: EPOCYLTM NC R1MY-02
Type of product: Carbon/epoxy resin mixture

Company: Nanocyl sa

Rue de l'Essor, 4 B-5060 Sambreville

Belgium

Phone: + 32 71 750 380 (office hour)

Fax: + 32 71 750 390 E-mail: info@nanocyl.com

2. Hazards identification

Hazard designation: Xn Harmful

N Dangerous for the environment

Health hazards: R21/22 Harmful in contact with skin and if swallowed.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R68 Possible risk of irreversible effects

3. Composition/information on ingredients

Components	N° CAS	% (wt.)	Classification
4,4'-Methylenebis (N,N-	28768-32-3	> 80 %	Xn, N
diglycidylaniline)			R21/22 R43 R51/53 R68
Synthetic graphite (Carbon nanotubes)	7782-42-5	< 20 %	/



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4. First aid measures

After skin contact: In case of contact with hot product, immediately flood the affected area with

cold water. Wipe excess material from exposed area. Flush exposed skin with water and follow by washing with soap. Carefully remove clothing; if clothing is stuck to a burn area do not pull it off, but cut around it. Cover burn area with a clean material. Transport to nearest medical facility for additional

treatment.

Eye contact: Hold the eyes open and rinse with water for a sufficiently long period of time

(at least 10 minutes). Obtain medical attention if pain, blurred vision,

swelling, burning or redness persist.

After inhalation: If vapours are inhaled, move the person into fresh air, keep warm and allow

to rest. If breathing is difficult, oxygen may be administered and medical

attention should be obtained.

Ingestion: Do not induce vomiting. Rinse out mouth with water, and then drink sips of

water to remove taste from mouth. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below

hips to prevent aspiration. Obtain medical attention.

5. Fire-fighting measures

Suitable extinguishing media: Water fog, foam, Carbon Dioxide, Dry Chemical.

Specific hazards: Material will not burn unless preheated. Clear fire area of all non-emergency

personnel. Cool fire exposed containers with water. Container areas exposed to direct flame contact should be cooled with large quantities of

water as needed to prevent weakening of container structure.

Protective equipments: Wear self-contained breathing apparatus. Wear suitable protective clothing.

Combustion products: May form toxic materials, carbon monoxide, carbon dioxide, nitrogen oxides,

gaseous hydrocarbons, which can form explosive mixtures with air.



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6. Accidental release measures

Personal precautions: May burn although not readily ignitable. Equip cleanup crew with proper

protection (see chapter 8).

Environmental precautions: Prevent entry to sewers, rivers and public waters. Construct a dike to prevent

spreading. Remove contaminated soil to remove contaminated trace.

Spill Procedures: Soak up with an absorbent such as clay, sand or other suitable material. Place

in appropriate chemical waste container Approach suspected leak areas with

caution.

7. Handling and storage

Handling: Good ventilation of the workplace required. Handle in accordance with good

industrial hygiene and safety procedures. Contact with the skin and the eyes must be avoided. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing

before reuse. To prevent thermal burns avoid contact with hot product.

Storage: Keep only in the original closed container in a dedicated place. Keep containers

in a cool, dry place with adequate ventilation. Keep away from open flames and

high temperature. Storage temperature between 4-8 ℃.

8. Exposure controls / personal protection

Hand protection: Protecting gloves, for example in nitrile rubber.

Skin and body protection: Wear chemical-resistant gloves and other clothing as required to minimize

contact.

Respiratory protection: Wear appropriate respirator when ventilation is inadequate or when the product

is heated.

Eye protection: Chemical goggles or safety glasses.



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In case of contact, ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and leaving work. Facilities storing or utilizing this material should be equipped with an eyewash facility.

9. Physical and chemical properties

Form and Color: black viscous liquid, resin

Odor: nearly odorless

Thermal decomposition: > 200℃ > 200 ℃ Flash point:

300 ± 100 Pa.s Viscosity @ 25°C: Viscosity @ 60 °C: 20 ± 15 Pa.s **Epoxy Value:** 8.36 - 8.91 eg/kgEpoxy equivalent: 112.2- 119.5 g/eq 1.15 - 1.20 g/ml Density at 25 °C:

5°C Storage temperature:

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. Stability and reactivity

Stability: Stable under normal conditions. Hazardous polymerization will not occur.

Materials to avoid: Can react vigorously with strong oxidizing agents, strong Lewis or mineral

> acid, and strong mineral and organic bases. Avoid contact with water. Reaction with some curing agents may produce considerable heat and

possible violent decomposition.

Toxicological information

Sensitization: May cause skin sensitization.

Inhalation: Under conditions where exposure to vapors or mists is possible, could cause

respiratory tract irritation.

Nanocyl S.A.

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Skin: May be mildly irritating to the skin. Contact with hot material can cause

thermal burns which may result in permanent damage.

Eyes: May be mildly irritating to the eyes. Contact with hot material can cause

thermal burns which may result in permanent damage or blindness.

Other information: Mutagenic effects in animal experiments.

12. Ecological information

Biodegradability: Not biodegradable.

Environmental precautions: Do not allow to enter ground soil, sewage, drains.

13. Disposal considerations

Product: If the material becomes a waste, consider it as special waste. It can be

destroyed by incineration in accordance with local, state and federal

regulations.

Container: Empty containers can be landfilled after cleaning, when in compliance with the

Environmental Protection Regulation.

14. Transport information

ADR/RID:

UN-No: 3082
Class: 9
Packaging group: III
Risk No.: 90
ADR/RID-Labels: 9

Proper shipping name: Environmentally Hazardous Substance, Liquid, nos.

Contains: Tetraglycidyl-methylenedianiline



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IMDG:

UN-No: 3082
Class: 9
Packaging group: III
Labels: 9

Proper shipping name: Environmentally Hazardous Substance, Liquid, nos.

Contains: Tetraglycidyl-methylenedianiline

IATA:

UN-No: 3082
Class: 9
Packaging group: III
Labels: 9

Proper shipping name: Environmentally Hazardous Substance, Liquid, nos.

Contains: Tetraglycidyl-methylenedianiline

15. Regulatory information

Labelling according to EEC Directive

Symbol(s): Xn Harmful

N Dangerous for the environment

R Phrase(s): R21/22 Harmful in contact with skin and if swallowed.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

R68 Possible risk of irreversible effects

S Phrase(s): S28 After contact with skin, wash immediately with plenty of soap

and water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face

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protection.

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Avoid release to the environment. Refer to special instruction/ safety data sheets.

16. Other information

The contents and format of this MSDS are in accordance with EEC Regulation REACH 1907/2006 art. 31.

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