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EPOCYL[™] NC R128-04 Material Safety Data Sheet

1. Identification of the product and the company

Trade Name: EPOCYL[™] NC R128-04
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)

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2. Hazards identification

Hazard designation: Xi Irritant

N Dangerous for the environment

Health hazards: R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

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

the aquatic environment.

3. Composition/information on ingredients

Components	N° CAS	% (wt.)	Classification
Epoxy Resin (Bisphenol-A-epichlorhydrin)	25068-38-6	> 80 %	Xi, N R36/38 R43 R51/53
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, silica,

formaldehyde.



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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 5-40 °C.

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: $> 200 \,^{\circ}\text{C}$ Flash point: $> 200 \,^{\circ}\text{C}$ Viscosity @ 25 $^{\circ}\text{C}$: $35 \pm 10 \,^{\circ}\text{Pa.s}$ Epoxy Value: $4.91 - 5.10 \,^{\circ}\text{eq/kg}$ Epoxy equivalent: $196.1 - 203.52 \,^{\circ}\text{g/eq}$ Density at 25 $^{\circ}\text{C}$: $1.15 - 1.20 \,^{\circ}\text{g/ml}$

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.

11. Toxicological information

Sensitization: May cause skin sensitization.

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

respiratory tract irritation.

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

thermal burns which may result in permanent damage.

Nanocyl S.A.

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Eyes:

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

thermal burns which may result in permanent damage or blindness.

The reaction product: bisphenol-A-(epichlorhydrin); epoxy resin has not been classified by the International Agency for Research on Cancer (IARC).

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: Bisphenol A Epoxy Resin





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IMDG:

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

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

Contains: Bisphenol A Epoxy Resin

IATA:

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

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

Contains: Bisphenol A Epoxy Resin

15. Regulatory information

Labelling according to EEC Directive

Symbol(s): Xi Irritant

N Dangerous for the environment

R Phrase(s): R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

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

effects in the aquatic environment.

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

and water.

S37/39 Wear suitable gloves and eye/face protection.

S61 Avoid release to the environment. Refer to special instruction/

safety data sheets.

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Hazardous components which must be listed on the label:

reaction product: Bisphenol A-(epichlorhydrin); epoxy resin

16. Other information

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

Disclaimer: Nanocyl s.a. provides the information contained herein in good faith and makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material.