



THE CARBON NANOTUBE SPECIALIST

NANO-ENGINEER YOUR FUTURE

Date: 13 May 2009

Revision N°2

BIOCYL™ XC113 Part B / MSDS / Page 1/5

Supersedes: 22 September 2008

## BIOCYL™ XC113 Part B Material Safety Data Sheet

### 1. Identification of the product and the company

Trade Name: BIOCYL™ XC113 Part B  
Type of product: Carbon/silicone polymer 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

This product is not dangerous product for health and environment

### 3. Composition/information on ingredients

Components	N° CAS	% (wt.)	Classification
Vinyl silicone polymer	68083-19-2	> 65 %	/
Synthetic graphite (Carbon nanotubes)	7782-42-5	< 20 %	/
Methylhydrogensiloxane dimethylsiloxane copolymer	68037-59-2	< 15 %	/

### 4. First aid measures

After skin contact: Remove contaminated clothing immediately. Wash contacted skin areas with plenty of cold to lukewarm water and soap. If irritation develops, consult a physician.

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.

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BIOCYL™ XC113 Part B / MSDS / Page 2/5

Supersedes: 22 September 2008

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: /

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

Combustion products: May form toxic materials, carbon monoxide, carbon dioxide, silicone oxides, formaldehyde.

## 6. Accidental release measures

Personal precautions: No specific measures are necessary. Usual precautions as with any chemical.

Environmental precautions: Collect for disposal. Avoid discharge to natural waters, sewers and biological waste water treatment plants.

Spill Procedures: Use absorbent material to collect and contain for disposal. Contain large spills and pump into a suitable tank. Wash area with suitable detergent and thoroughly rinse. Approach suspected leak areas with caution (slippery surface).

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BIOCYL™ XC113 Part B / MSDS / Page 3/5

Supersedes: 22 September 2008

## 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.

**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 gloves and other clothing as required to minimize contact.

**Respiratory protection:** Wear appropriate respirator when ventilation is inadequate.

**Eye protection:** Chemical goggles or safety glasses.

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

**Odor:** odorless

**Ignition temperature:** ca. 430°C

**Flash point:** > 130°C

**Viscosity @ 25°C:** not determined

**Vapor pressure @ 25°C:** < 1 mm Hg

**Vapor density:** > 1 (air = 1)

**Density at 20°C:** ~0.98 g/ml

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**BIOCYL™ XC113 Part B / MSDS / Page 4/5**

**Revision N°2**

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Solubility in water: Insoluble

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 handling and storage conditions. Hazardous polymerization will not occur.

Materials to avoid: Strong oxidizing materials can cause a reaction. Contact with alkali and many metallic materials can cause a reaction.

### **11. Toxicological information**

Sensitization: No data available.

Inhalation: No data available.

Skin: No data available.

Eyes: No data available.

### **12. Ecological information**

Biodegradability: No data available.

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.

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#### 14. *Transport information*

According to national and international guidelines, which regulate the road-, rail-, air-, and sea transport, this product is classified as not dangerous.

#### 15. *Regulatory information*

##### **Labelling according to EEC Directive**

The material is not subject to classification according to the EEC lists and other sources of literature known to us. Observe the normal safety regulations when handling chemicals.

#### 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.

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