



THE CARBON NANOTUBE SPECIALIST

NANO-ENGINEER YOUR FUTURE

Date: 4 June 2009

Revision N°2

BIOCYL™ XC313 C2 Part B / MSDS / Page 1/6

Supersedes: 17 February 2009

## BIOCYL™ XC313 C2 Part B Material Safety Data Sheet

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

Trade Name: BIOCYL™ XC313 C2 Part B  
Type of product: 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

Hazard designation: **C** Corrosive

Health hazards: **R20** Harmful by inhalation.  
**R35** Causes severe burns.  
**R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. Composition/information on ingredients

Components	N° CAS	% (wt.)	Classification
Trifluoroacetic acid	76-05-1	< 20 %	C R20 R35 R52/53
Polydimethylsiloxane	63148-62-9	> 80 %	/

### 4. First aid measures

After skin contact: Remove contaminated clothing immediately. Wash contacted skin areas with plenty of cold to lukewarm water for at least 15 minutes. Get medical aid.

Eye contact: Immediately hold the eyes open and rinse with water for a sufficiently long period of time (at least 15 minutes); occasionally lifting the upper and lower eyelids. Get medical aid.

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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 drink 2-4 cupfuls of water or milk. 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, Carbon Dioxide, Dry Chemical, or Foam.

Specific hazards: /

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

Combustion products: May form corrosive and/or toxic materials, carbon monoxide, carbon dioxide.

## 6. Accidental release measures

Personal precautions: Equip cleanup crew with proper protection (see chapter 8). Avoid inhaling mists and vapours. Avoid contact with eyes and skin.

Environmental precautions: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Do not empty into drains.

Spill procedures: Approach suspected leak areas with caution. The spilled product produces a slippery surface. Cover with inert absorbent material (e.g. sand, vermiculite) and collect for disposal. Wash area with suitable detergent and thoroughly rinse.

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## 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. Do not breathe dust, vapour, mist or gas. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities.

**Storage:** Keep only in the original closed container in a dedicated place (corrosive area). Keep containers in a cool, dry place with adequate ventilation. Keep away from open flames and high temperature. Used containers must be sealed tightly.

## 8. Exposure controls / personal protection

### Personal protective equipment:

**Hand protection:** Chemical protective gloves, for example in nitrile rubber.

**Skin and body protection:** Wear chemical-resistant gloves and other clothing as required to prevent contact.

**Respiratory protection:** Wear appropriate respirator when ventilation is inadequate or in case of prolonged exposure.

**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

**Physical state:** viscous liquid

**Colour:** colourless

**Odour:** pungent odour

**Viscosity:** not determined

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Vapor pressure: not determined  
Vapor density: not determined  
Solubility in Water: not determined  
Flash point: not determined  
Ignition temperature: not determined

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: Strong oxidizing materials can cause a reaction. Contact with alkalies, reducing agents, acids, bases, caustics and many metallic materials can cause a reaction.

Conditions to avoid: Heat, exposure to moisture.

Hazardous combustion or decomposition products: Organic acid vapours, formaldehyde, silicon dioxide, carbon monoxide, carbon dioxide, hydrogen fluoride gas.

## 11. Toxicological information

Ingestion: Not determined.  
Inhalation: Not determined.  
Skin: Not determined.  
Eyes: Not determined.

## 12. Ecological information

Environmental fate distribution: Not determined.

Ecotoxicity effects: Not determined.

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### 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: 3264  
Class: 8  
Packaging group: II  
Risk No.: 80  
ADR/RID-Labels: 8  
Proper shipping name: Corrosive liquid, acidic, inorganic, nos  
Contains: trifluoroacetic acid

#### IMDG:

UN-No: 3264  
Class: 8  
Packaging group: II  
Labels: 8  
Proper shipping name: Corrosive liquid, acidic, inorganic, nos  
Contains: trifluoroacetic acid

#### IATA :

UN-No: 3264  
Class: 8  
Packaging group: II  
Labels: 8

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Proper shipping name: Corrosive liquid, acidic, inorganic, nos

Contains: trifluoroacetic acid

## 15. Regulatory information

### Labelling according to EEC Directive

Symbol(s) :	<b>C</b>	Corrosive
R Phrase(s) :	<b>R20</b>	Harmful by inhalation.
	<b>R35</b>	Causes severe burns.
	<b>R52/53</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S Phrase(s) :	<b>S9</b>	Keep container in a well-ventilated place.
	<b>S26</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	<b>S27</b>	Take off immediately all contaminated clothing
	<b>S28</b>	After contact with skin, wash immediately with plenty of soap and water.
	<b>S45</b>	In case of accident or if you feel unwell, seek medical advice immediately.
	<b>S61</b>	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.

**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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