



THE CARBON NANOTUBE SPECIALIST

NANO-ENGINEER YOUR FUTURE

Date: 4 June 2009

Revision N°2

BIOCYL™ XC3xx C1 Part B / MSDS / Page 1/6

Supersedes: 17 February 2009

BIOCYL™ XC3xx C1 Part B Material Safety Data Sheet

1. Identification of the product and the company

Trade Name: BIOCYL™ XC3xx C1 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: **T** Toxic
N Dangerous for the environment

Health hazards: **R22** Harmful if swallowed.
R26 Very toxic by inhalation.
R36/38 Irritating to eyes and skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Components	N° CAS	% (wt.)	Classification
Dibutyltin dilaurate	77-58-7	< 10 %	T+ N R22 R26 R36/38 R50/53
Polydimethylsiloxane	63148-62-9	> 90 %	/

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.

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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.
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 mouth with water and obtain medical attention. Never give anything by mouth to an unconscious person.

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 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.

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

8. Exposure controls / personal protection

Personal protective equipment:

Hand protection: Chemical protective gloves.

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 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: light yellow

Odour: mild 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: Can react with strong oxidizing agents, strong bases.

Conditions to avoid: Heat.

Hazardous combustion or decomposition products: Organic acid vapours, formaldehyde, silicon dioxide, carbon monoxide, carbon dioxide, tin oxides.

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: 2922
Class: 8
Sub risk: 6.1
Packaging group: III
Risk No.: 86
ADR/RID-Labels: 8 (6.1)
Proper shipping name: Corrosive liquid, toxic, nos
Contains: dibutyltin dilaurate

IMDG:

UN-No: 2922
Class: 8
Sub risk: 6.1
Packaging group: III
Labels: 8 (6.1)
Proper shipping name: Corrosive liquid, toxic, nos
Contains: dibutyltin dilaurate

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IATA :

UN-No: 2922
Class: 8
Sub risk: 6.1
Packaging group: III
Labels: 8 (6.1)
Proper shipping name: Corrosive liquid, toxic, nos
Contains: dibutyltin dilaurate

15. Regulatory information

Labelling according to EEC Directive

Symbol(s) :	T	Toxic
	N	Dangerous for the environment
R Phrase(s) :	R22	Harmful if swallowed.
	R26	Very toxic by inhalation.
	R36/38	Irritating to eyes and skin.
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S Phrase(s) :	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of soap and water.
	S45	In case of accident or if you feel unwell, seek medical advice immediately.
	S61	Avoid release to the environment. Refer to special instruction/ safety data sheets.

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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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