



THE CARBON NANOTUBE SPECIALIST

NANO-ENGINEER YOUR FUTURE

SIZICYL

Date: 10 June 2009

Revision N°2

SIZICYL™ XCR2G / MSDS / Page 1/5

Supersedes: 13 January 2008

## SIZICYL™ XCR2G Material Safety Data Sheet

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

Trade Name: SIZICYL™ XCR2G  
Type of product: Carbon/Water 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  
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### 2. Hazards identification

This product is not dangerous product for health and environment.

### 3. Composition/information on ingredients

Components	N° CAS	% (wt.)	Classification
Water	7732-18-5	> 90 %	/
Dispersant	/	< 5 %	/
Synthetic graphite (Carbon nanotubes)	7782-42-5	< 5 %	/
Dodecylbenzene-sulfonic acid sodium	25155-30-0	< 2.5 %	Xn R22 R37/38 R41

### 4. First aid measures

After skin contact: In case of contact with product, immediately rinse thoroughly with soap and plenty of water. Obtain medical attention if irritation persists.

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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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, sulfur oxides, hydrogen sulfur gas.

## 6. Accidental release measures

Personal precautions: Equip cleanup crew with proper protection (see chapter 8). Material can create slippery conditions.

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 (slippery conditions).

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## 7. Handling and storage

**Handling:** When bringing the material to high temperatures (> 80°C) gases might develop. Provide appropriate ventilation for such processing conditions. 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. Storage temperature between 5-30°C. Keep away from freezing.

## 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.

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 liquid dispersion

**Odor:** nearly odorless

**Boiling point:** 100°C

**Melting point:** 0°C

**Vapor pressure:** ~ 18 mmHg at 20°C

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Density: ~ 1 at 20°C

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. Thermal decomposition or combustion of the additives may produce smoke of carbon oxides, sulfur oxides, hydrogen sulfide gas and low molecular weight organic compounds.

Materials to avoid: Strong oxidizing and reducing agents.

Hazardous decomposition: No hazardous decomposition products known at room temperature.

## 11. Toxicological information

Sensitization: No data available.

Inhalation: No data available.

Skin: No data available.

Eyes: No data available.

When used and handled according to specifications, the product does not have harmful effects according to our experience and the information provides to us.

## 12. Ecological information

Biodegradability: /

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

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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

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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