



THE CARBON NANOTUBE SPECIALIST

NANO-ENGINEER YOUR FUTURE

**PREGCYL**

Date: 9 November 2009

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Revision N°1

Supersedes: /

## PREGCYL™ UD150 Material Safety Data Sheet

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

Trade Name: PREGCYL™ UD150  
 Type of product: Epoxy carbon fiber prepreg

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: **Xi** Irritant

Health hazards: **R36/38** Irritating to eyes and skin.  
**R43** May cause sensitization by skin contact.

### 3. Composition/information on ingredients

Components	N° CAS	% (wt.)	Classification
Carbon Fiber	7440-44-0	> 55 %	/
Epoxy Resin (Bisphenol-A-epichlorhydrin)	25068-38-6	< 40 %	Xi, N R36/38 R43 R51/53
Synthetic graphite (Carbon nanotubes)	7782-42-5	< 5 %	/
chlorotoluron	15545-48-9	< 1%	Xn N R50/53

### 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.

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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. Immediately give plenty of water. 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.

## **6. Accidental release measures**

Personal precautions:	Equip cleanup crew with proper protection (see chapter 8).
Environmental precautions:	Prevent entry to sewers, rivers and public waters.
Spill Procedures:	Collect and place into closable container for disposal. Wear protective equipment.

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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. To prevent thermal burns avoid contact with hot product (polymerization is a highly exothermic reaction).

**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 and 25 °C.

## 8. Exposure controls / personal protection

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

**Skin and body protection:** Wear protecting 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 Resin impregnated carbon fiber

**Odor:** not determined

**Thermal decomposition:** not determined

**Flash point:** not determined

**Density at 25 °C:** not determined

**Solubility:** practically insoluble in water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## 10. Stability and reactivity

Stability:	Stable under normal conditions. Hazardous polymerization will not occur under normal condition.
Materials to avoid:	Can react vigorously with strong oxidizing agents, acids and bases.
Condition to avoid:	Avoid temperature above 150 °C.

## 11. Toxicological information

Sensitization:	Causes sensitization (data based on tests on similar product).
Inhalation:	Irritant (data based on tests on similar product).
Skin:	Irritant (data based on tests on similar product).
Eyes:	Irritant (data based on tests on similar product).

## 12. Ecological information

Degradability:	Avoid subsoil penetration.
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

Symbol(s) :	<b>Xi</b>	Irritant
R Phrase(s) :	<b>R36/38</b> <b>R43</b>	Irritating to eyes and skin. May cause sensitization by skin contact.

#### 16. *Other information*

##### R-phrases components

<b>R50</b>	Very toxic to aquatic organisms.
<b>R51</b>	Toxic to aquatic organisms.
<b>R53</b>	May cause long-term adverse effects in the aquatic environment.

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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