

Date: 2 June 2009 Revision N°2

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Supersedes: 17 March 2009

BIOCYL[™] PRIMER P3 Material Safety Data Sheet

1. Identification of the product and the company

Trade Name: BIOCYL[™] PRIMER P3
Type of product: Primer for adhesion

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: Xn Harmful

F Highly flammable

N Dangerous for the environment

Health hazards: R11 Highly flammable

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients

Components	N° CAS	% (wt.)	Classification	
Allyltrimethoxysilan	2551-83-9	8 %	Xn	R10 R22
Titantetrabutanolat	5593-70-4	5 %	Xi	R10 R36/38
Heptan	142-82-5	87 %	F Xi Xn N	
			R11 R	38 R50/53 R65 R67



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4. First aid measures

After skin contact: In case of skin contact, 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.

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: 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, foam, Carbon Dioxide, Dry Chemical.

Specific hazards: Cool fire exposed containers with water. Vapors are heavier than air, so they

might creep to distant sources of ignition. Vapors may form explosive mixture

with air.

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

Combustion products: May form toxic materials, carbon monoxide, carbon dioxide, silica,

formaldehyde.

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.



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Spill Procedures:

Approach suspected leak areas with caution. Cover with dry and non-flammable

inert absorbent material and collect for disposal.

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. Do not breathe vapours.

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.

Avoid direct sun and heat.

8. Exposure controls / personal protection

Components with workplace parameters:

Component	Country	Short-term values	Long-term values
142-82-5	Germany ; MAK	2000 mg/m³ ; 500 ppm	/
Heptan	Belgium	2085 mg/m ³ ; 500 ppm	1664 mg/m³ ; 400 ppm
2551-83-9	Germany ; MAK	200 ppm	/
Allyltrimethoxysilane	Belgium	266 mg/m³; 200 ppm	333 mg/m³ ; 250 ppm

Personal protective equipment:

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

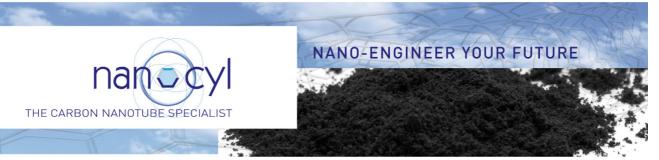
Skin and body protection: Wear chemical-resistant gloves and other clothing as required to minimize

contact.

Respiratory protection: Wear appropriate respirator when ventilation is inadequate or in case of

prolonged exposure or in other circumstances where the TWA may be

approached or exceeded.



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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: colorless (yellowish) liquid

Odor: characteristic

Boiling point: > 90 ℃

Melting point: not determined

Flash point: -12.8 °C (Pensky-Maartens Closed Cup)

Density: 0.71 g/ml at $20 \,^{\circ}$ C Viscosity: 0.63 at $25 \,^{\circ}$ C

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 conditions. Hazardous polymerization will not occur.

Materials to avoid: Strong oxidizing agents.

Hazardous combustion or Formation of flammable vapor/air mixtures possible at temperature $> 150\,^{\circ}\text{C}$.

decomposition products: Small amounts of formaldehyde might be possible.

11. Toxicological information

Ingestion: Can cause serious injury if aspirated into the lungs. Forms methanol and may

cause injury to man at doses > 200 mg/kg.



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Inhalation:

Vapors may cause drowsiness and dizziness, headache, nausea and in case of

high concentration absence.

Skin: Irritating, long and repeated contact may cause defatting of the skin. Risk of

dermatitis.

Eyes: Irritating.

12. Ecological information

Environmental fate Organic solvents may evaporate into the atmosphere, where they degrade.

distribution: Siloxanes are removed from water by sedimentation or binding to sewage

sludge. In soil, siloxanes are degraded.

Ecotoxicity effects: Very toxic to aquatic organisms and may cause long-term adverse effects in the

aquatic environment.

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: 1206
Class: 3
Packaging group: II
Risk No.: 33
ADR/RID-Labels: 3

Proper shipping name: Heptanes

Nanocyl S.A.

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IMDG:

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UN-No: 1206
Class: 3
Packaging group: II
Labels: 3

Proper shipping name: Heptanes

IATA:

UN-No: 1206
Class: 3
Packaging group: II
Labels: 3

Proper shipping name: Heptanes

15. Regulatory information

Labelling according to EEC Directive

Symbol(s): Xn Harmful

F Highly flammable

N Dangerous for the environment

R Phrase(s): R11 Highly flammable.

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

S Phrase(s): S23 Do not breathe spray.

S26 In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

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S33	Take precautionary	measures against	static discharges
000	ranc procautionary	micasares against	static discribinges.

S37 Wear suitable gloves.

S51 Use only in well-ventilated areas.

S60 This material and its container must be disposed of as hazardous

waste.

16. Other information

R-phrases components

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R10 Flammable

R22 Harmful if swallowed

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.