## MATERIAL SAFETY DATA SHEET **MDBIOL 121046CMPD**

Version Number 1.0 Revision Date 04/22/2009

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone : Emergency telephone :	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	MDBIOL 121046CMPD
Product code	:	CC10121046
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	1 - 5

#### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

#### POTENTIAL HEALTH EFFECTS

<b>Routes of Exposure:</b>	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation	: Resin particles, like other inert materials, can be mechanically irritating.
Ingestion	: May be harmful if swallowed.
Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.

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		4. FIRST AID MEASURES
Inhalation	:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	:	Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	:	Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
		5. FIRE-FIGHTING MEASURES
Flash point	:	Not applicable
Elemmehle Limite		
Flammable Limits Upper explosion limit		Not applicable
Lower explosion limit	:	Not applicable
Autoignition temperature	:	Not applicable
Suitable extinguishing media	:	Carbon dioxide blanket, Water spray, Dry powder, Foam.
Special Fire Fighting Procedures	:	Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A	CCIDENTAL RELEASE MEASURES
Personal precautions	:	Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	:	Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	:	Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
		7. HANDLING AND STORAGE
Handling	:	Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption

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8.1	EXPOSURE	CONTROLS/PERSONAL	PROTECTION	
Respiratory protection	: N	lo personal respiratory protecti	ive equipment normall	ly required.
Eye/Face Protection	: S	afety glasses with side-shields		
Hand protection	: P	rotective gloves		
Skin and body protection	: L	ong sleeved clothing		
Additional Protective Measures	: S	afety shoes		
General Hygiene Considerations		andle in accordance with good ractice. Wash hands before br		
Engineering measures		leat only in areas with appropr ppropriate exhaust ventilation		n. Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL
· · · · · ·				
	9. PHYSIC	CAL AND CHEMICAL PRO	DPERTIES	
Form	: Solic	l Evapo	ration rate : N	lot applicable
Appearance	: pelle		2	lot determined
Color	: WHI			lot established
Odour			ir pressure : N	lot applicable
Melting point/range				lot applicable
Boiling Point: Water solubility	: Not a : Insol	applicable pH	: N	lot applicable
water solubility	. 111501	uble		
	10. 8	STABILITY AND REACTIV	/ITY	
Stability	: S	table.		
Hazardous Polymerization	W	Vill not occur.		

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 Conditions to avoid
 :
 Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.

 Incompatible Materials
 :
 Incompatible with strong acids and oxidizing agents.

 Hazardous decomposition products
 :
 Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

 Int TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ	
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.	

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

- 2A The component is probably carcinogenic to humans.
- 2B The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

#### **12. ECOLOGICAL INFORMATION**

Additional advice	:	No data available	
Bioaccumulation Potential	:	Chemicals are not readily available as they are bound within the polymer matrix.	
Environmental Toxicity	:	Chemicals are not readily available as they are bound within the polymer matrix.	
Persistence and degradability	:	Not readily biodegradable.	

#### **13. DISPOSAL CONSIDERATIONS**

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: Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.			
: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.			
14. TRANSPORT INFORMATION			
: Not regulated for transportation.			
: Refer to specific regulation.			
: Refer to specific regulation.			
15. REGULATORY INFORMATION			
: Classified as hazardous based on components.			
: All components of this product are listed on or exempt from the TSCA Inventory.			
s Substances (40 CFR 302)			
: Not applicable			
stremely Hazardous Substance			
Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation			
oxic Chemicals:			
identified under this section, this product is Not Applicable under this regulation			

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National Pollutant Release Inventory (NPRI)				
Not applicable				
WHMIS Classification	:	D2A		
DSL	:	DSL status has not been determined. Quantity use in Canada may be restricted by regulations.		
National Inventories:				
Australia AICS	:	Not determined		
China IECS	:	Not determined		
Europe EINECS	:	Not determined		
Japan ENCS	:	Not determined		
Korea KECI	:	Not determined		
Philippines PICCS	:	Not determined		
		16. OTHER INFORMATION		

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.