

MATERIAL SAFETY DATA SHEET

ZIMA BLUE

Version Number 1.0 Revision Date 03/16/2002 Page 1 of 5 Print Date 11/3/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	ZIMA BLUE
Product code	:	CC10012690
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS 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. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some fumes may be released upon heating or crosslinking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See Sections 3 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	Inhalation, Ingestion, Skin contact			
Acute exposure				
Inhalation Ingestion Eyes	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Resin particles, like other inert materials, are mechanically irritating to eves 			
Skin	eyes. : 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 or 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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media	 Not applicable Not applicable Not relevant Carbon dioxide blanket, Water spray, dry powder, foam.
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. None
	6. ACCIDENTAL 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 1 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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	aı	nd contamination. Kee	ep in a dr	y, cool place.	
8. H	XPOSURE	CONTROLS / PERS	ONAL I	PROTECTION	
Respiratory protection	: N	o personal respiratory	protectiv	ve equipment normally	y required.
Eye/Face Protection	: S	: Safety glasses with side-shields.			
Hand protection	: Protective gloves.				
Skin and body protection	: Long sleeved clothing.				
Additional Protective Measures	: Safety shoes.				
General Hygiene Considerations		andle in accordance wi Vash hands before brea			safety practice.
Engineering measures	: Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.				
Exposure limit(s)					
Components	Value	Exposure time		Exposure type	List:
Titanium dioxide	10 mg/m3	Time Weighted Ave (TWA):		Total dust.	ACGIH
	15 mg/m3			Total dust.	OSHA Z1
	9. PHYSIC	CAL AND CHEMICA	L PRO	PERTIES	
L					
Examp	: Solic				ot applicable.
Form				c Gravity : No	ot determined
Appearance	: Pelle			•, •	
Appearance Color	: BLU	E	Bulk de		ot established
Appearance Color Odor	: BLU : Very	E faint	Bulk de Vapor j	pressure : No	ot established ot applicable
Appearance Color	: BLU : Very : Not o	E	Bulk de	pressure : No density : No	ot established

10. STABILITY AND REACTIVITY

Stability	:	Stable.
Hazardous Polymerization	:	Will not occur.
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.



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Hazardous decomposition products

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

11. 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.			
	12. ECOLOGI	CAL INFORMATION	1			
Persistence and degrad		viodegradable.				
Environmental Toxicit		 Chemicals are not readily available as they are bound within the matrix of the polymer. Chemicals are not readily available as they are bound within the matrix of the polymer. 				
Bioaccumulation Poter						
Additional advice	: No data avai	lable.				
	13. DISPOSAL	CONSIDERATIONS				
Product Contaminated packagi	recycling is p waste materi transportatio state/provinc ng : Recycling is has the respo and disposal	 Like most thermoplastics 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. TRANSPO	ORT INFORMATION				
U.S. D.O.T. / CA T.D. Classification (Non-bu ground)	G. : Not regulated	: Not regulated for transportation.				
ICAO/IATA	: Not regulated	d for transportation.				
IMO / IMDG	: Not regulated	d for transportation.				
	15 RECHLAT	ORY INFORMATION	J			

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US Regulations:		
OSHA Status	:	Classified as hazardous based on components.
TSCA Status	:	All components of this product are listed on the TSCA inventory or are exempt.
California Proposition 65	:	This product does not contain a substance listed by California Prop 65.
Canadian Regulations:		
WHMIS Classification	:	D2B
DSL	:	Listed.
National Inventories:		
Australia AICS	:	Listed.
China IECS	:	Listed.
Europe EINECS	:	Not determined.
Japan ENCS	:	Listed.
Korea KECI	:	Listed.
Philippines PICCS	:	Listed.

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.