

MATERIAL SAFETY DATA SHEET

REFLEX BLUE

Version Number 1.0 Revision Date 08/14/2003

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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	:	REFLEX BLUE
Product code	:	CC10041246
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Decanedioic acid,	52829-07-9	10 - 30
bis(2,2,6,6-tetramethyl-4-piperidinyl) ester		
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

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes Skin	 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 eyes. Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.



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Medical Conditions Aggravated by Exposure:	: None known.
	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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion	 Not applicable Not applicable Not relevant Carbon dioxide blanket, water spray, dry powder, foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. None
Hazards	
	5. 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



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	0	nly in areas with appropriate e	xhaust ventilation	
	0.	ing in areas with appropriate e.	Andust Ventilation.	
Storage		teep containers dry and tightly nd contamination. Keep in a d		e absorption
8. E	XPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	o personal respiratory protecti	ve equipment normally	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		landle in accordance with good Vash hands before breaks and a		safety practic
Engineering measures		leat only in areas with appropri ppropriate exhaust ventilation		Provide
Exposure limit(s)				
	Value	Exposure time	Exposure type	List:
Exposure limit(s) Components Titanium dioxide	Value 10 mg/m3	Time Weighted Average	Exposure type	
Components			Exposure type Total dust.	ACGIH
Components Titanium dioxide	10 mg/m3 15 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
Components Titanium dioxide Titanium dioxide	10 mg/m3 15 mg/m3 9. PHYSIC	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO	Total dust.	ACGIH OSHA Z
Components Titanium dioxide	10 mg/m3 15 mg/m3	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO	Total dust. DPERTIES ration rate : Not	ACGIH OSHA Z
Components Titanium dioxide Titanium dioxide Form Appearance Color	10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor sts Specifi E Bulk d	Total dust. DPERTIES ration rate : Not ic Gravity : Not ensity : Not	ACGIH OSHA Z t applicable. t determined t established
Components Titanium dioxide Titanium dioxide Form Appearance Color Odor	10 mg/m3 15 mg/m3 9. PHYSIC : Solid : Pelle : BLU : Very	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Specifi E Bulk d faint Vapor	Total dust. DPERTIES ration rate : Not ic Gravity : Not ensity : Not pressure : Not	ACGIH OSHA Z t applicable. t determined t established t applicable
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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.

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
52829-07-9	Decanedioic acid, bis(2,2,6,6-tetramethyl-4-p iperidinyl) ester	Irritant	Eyes.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

LC50 / LD50

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

CAS-No.	Chemical Name	Route	Value	Species
52829-07-9	Decanedioic acid, bis(2,2,6,6-tetramethyl-4-p iperidinyl) ester	Oral LD50 Dermal LD50	3,700 mg/kg > 3,100 mg/kg	rat rabbit

12. ECOLOGICAL INFORMATION

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



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and disposal in accordance with applicable federal, state/provincial and local regulations. **14. TRANSPORT INFORMATION** U.S. DOT Classification : Refer to specific regulation. ICAO/IATA Refer to specific regulation. : IMO / IMDG Refer to specific regulation. : **15. REGULATORY INFORMATION US Regulations: OSHA Status** Classified as hazardous based on components. : **TSCA Status** All components of this product are listed on or exempt from the TSCA ÷ Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition : This product does not contain a substance listed by California Prop 65. 65 SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Not applicable Canadian Regulations: National Pollutant Release Inventory (NPRI) Not applicable WHMIS Classification : D2B DSL All components of this product are on the Canadian Domestic : Substances List (DSL) or are exempt. National Inventories:



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Australia AICS	:	Listed.
China IECS	:	Listed.
Europe EINECS	:	Not determined.
Japan ENCS	:	Not determined.
Korea KECI	:	Not determined.
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 when used in combination with any other materials and/or in any particular process or processing conditions.