PolvOne

MATERIAL SAFETY DATA SHEET 45240PEN BIKE CARDINAL

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152

Telephone:Emergency telephone:	:	Product Stewardship (770) 590-3500 x.3563 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	45240PEN BIKE CARDINAL
Product code	:	FO00011926
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Calcium carbonate	471-34-1	10 - 30
Titanium dioxide	13463-67-7	0.1 - 1
Alkenes, C12-24, chloro	68527-02-6	5 - 10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Skin contact, Ingestion
Acute exposure	
Inhalation	: Inhalation of airborne droplets may cause irritation of the respiratory tract.
Ingestion	: May be harmful if swallowed.
Eyes	: May cause eye and skin irritation.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.

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	tic exposure : Refer to Section 11 for Toxicological Information.			
Medical Conditions : None known. Aggravated by Exposure:				
	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 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	: no data available			
Flammable Limits				
Upper explosion limit	: no data available			
Lower explosion limit	: no data available			
Autoignition temperature	: Not applicable			
Suitable extinguishing media	: Carbon dioxide blanket, Water spray, Dry powder, Foam.			
Special Fire Fighting	: Fullface self-contained breathing apparatus (SCBA) used in positive			
Procedures	pressure mode should be worn to prevent inhalation of airborne			
	contaminants.			
Unusual Fire/Explosion Hazards	: May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO2), carbon monoxide (CO),			
nazalus	oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.			
	6. ACCIDENTAL RELEASE MEASURES			
Personal precautions	: Wear appropriate personal protection during cleanup, such as			
reisonar procautions	impervious gloves, boots and coveralls.			
Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil. Should not be released into the environment.			
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.			

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	7.	HANDLING AND STORAG	E		
Handling	f F	Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.			
Storage		Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.			
8.]	EXPOSURE	E CONTROLS/PERSONAL P	ROTECTION		
Respiratory protection	: N	No personal respiratory protectiv	e equipment normally	required.	
Eye/Face Protection	: S	afety glasses with side-shields			
Hand protection	: F	Protective gloves			
Skin and body protection	: I	long sleeved clothing			
Additional Protective Measures	: S	Safety shoes			
General Hygiene Considerations		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			
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 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	as Ti	MX OEL	

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Colour Odour
- liquid
 viscous, liquid
 RED
 very faint

Evaporation rate Specific Gravity Bulk density Vapour pressure Not establishedNot determinedNot applicableNot determined

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Melting point/range Boiling Point: Water solubility	not applicablenot applicableimmiscible	Vapour density pH	Not determinedNot applicable
	10. STABILITY AN	D REACTIVITY	
Stability	: Stable		
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from or decomposition, do	xidizing agents and open f not overheat.	flame. To avoid thermal
Incompatible Materials	-	strong acids and oxidizing olymers and acetal copoly	
Hazardous decomposition products	(NOx), hydrogen c smoke are all possi degradation. As a after one hour at 1	O2), carbon monoxide (Ce hloride (HCl), other hazar ible. Prolonged heating m general rule of thumb, deg 77 °C (350 °F), after 10 m ninutes at 232 °C (450 °F)	rdous materials, and hay result in product gradation begins to occur inutes at 204 °C (400

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
471-34-1	Calcium carbonate	Irritant	Eyes, Skin.
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
471-34-1	Calcium carbonate	Oral	6,450	ratrat
		LD50Oral	mg/kg6,450	
		LD50	mg/kg	

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

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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
Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Environmental toxicity has not been established for this mixture as a whole.
Bioaccumulation Potential	: no data available
Additional advice	: no data available
	13. DISPOSAL CONSIDERATIONS
Product	: 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.
Contaminated packaging	: 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
U.S. DOT Classification	: Refer to specific regulation.
ICAO/IATA	: Refer to specific regulation.
IMO/IMDG (maritime)	: 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)

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not applicable

California Proposition : Not applicable 65

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

restricted by regulations.

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

not applicable

 WHMIS Classification
 : D2A

 DSL
 : DSL status has not been determined. Quantity use in Canada may be

National Inventories:

]	Philippines PICCS	:	Not determined
]	Korea KECI	:	Not determined
	1		
]	Japan ENCS	:	Not determined
]	Europe EINECS	:	Not determined
(China IECS	:	Not determined
1	Australia AICS	:	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

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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.