MATERIAL SAFETY DATA SHEET **RED 4**

Version Number 1.0 Revision Date 08/04/2009

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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	:	RED 4
Product code	:	CC10124061
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
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	: 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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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
Flammable Limits		
Upper explosion limit		not applicable
Lower explosion limit	:	not applicable
Autoignition temperature	:	not applicable
Suitable extinguishing media	:	
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	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen
Hazards		(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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Respiratory protection Eye/Face Protection	: N	lo personal respiratory protec		
Eye/Face Protection		to personal respiratory protect	tive equipment normally	required.
•	: S	afety glasses with side-shield	ls	
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 goo ractice. Wash hands before b		
Engineering measures		leat only in areas with approp ppropriate exhaust ventilation		. Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
*	0 mg/m3	Time Weighted Average (TWA):		ACGIH
1	5 mg/m3	PEL:	Total dust.	OSHA Z1
1	0 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
1	0 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
20	0 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL
9). PHYSIO	CAL AND CHEMICAL PR	OPERTIES	
Form		P	onotion noto	t omnlige ble
Form Appearance	: solid : pelle			ot applicable of determined
Colour	: RED		2	ot established
Odour				t applicable
Melting point/range				t applicable
Boiling Point:		pplicable pH		t applicable
Water solubility	: insol			
	10. 8	STABILITY AND REACTI	VITY	
		table		



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Conditions to avoid	1 2	m oxidizing agents an , do not overheat.	d open flame. To a	avoid thermal
Incompatible Mater	ials : Incompatible w	with strong acids and oxidizing agents.		
Hazardous decompo products		Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen NOx), other hazardous materials, and smoke are all possible.		
	11 TOXICOLOGI	CAL INFORMATIO	N	
health data for the in Toxicity Overview	ndividual components which cor	nprise the mixture.	re effects listed are have the following	
health data for the in <u>Toxicity Overview</u> This product contain	ndividual components which cor	nprise the mixture. ich in their pure form	have the following	characteristic
health data for the in Toxicity Overview	ndividual components which cor	nprise the mixture.		characteristic
health data for the in <u>Toxicity Overview</u> This product contain <u>CAS-No.</u> 13463-67-7 Carcinogenicity This product contain data: <u>CAS-No.</u>	ndividual components which corns the following components wh Chemical Name Titanium dioxide ns the following components wh Chemical Name	nprise the mixture. ich in their pure form Effect Systemic effects ich, in their pure form OSHA	have the following Target Respiratory syste , have the followin	characteristic Organ em. g carcinogeni NTP
health data for the in <u>Toxicity Overview</u> This product contain <u>CAS-No.</u> 13463-67-7 Carcinogenicity This product contain data:	ndividual components which cor ns the following components wh Chemical Name Titanium dioxide	nprise the mixture. ich in their pure form Effect Systemic effects ich, in their pure form	have the following Target Respiratory syste , have the followin	g characteristic Organ em. ng carcinogeni

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

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

12. ECOLOGICAL INFORMATION

	1.	3. DISPOSAL CONSIDERATIONS
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.



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Product	: 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.
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	: Not regulated for transportation.
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 Hazardou	s Substances (40 CFR 302)
not applicable	
California Proposition 65	: Not applicable
SARA Title III Section 302 E	xtremely Hazardous Substance
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 T	oxic Chemicals:
	identified under this section, this product is Not Applicable under this regulatio
Unless specific chemicals are	racinitied under this section, this product is root repricable under this regulation

Europe EINECS

Japan ENCS

Korea KECI

Philippines PICCS

PolyOne

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National Pollutant Releas	se I	nventory (NPRI)	
not applicable			
WHMIS Classification	:	D2A	
DSL	:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.	
National Inventories:			
Australia AICS	:	Listed	
China IECS	:	Listed	

16. OTHER INFORMATION

: Listed

:

:

Listed

Listed

: Listed

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.