PolyOne

#### MATERIAL SAFETY DATA SHEET

#### RED

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

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

Telephone Emergency telephone number	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	RED
Product code	:	CC10060435
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	5 - 10
C.I. Pigment Red 108	58339-34-7	10 - 30

#### **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 Ingestion Eyes	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul>
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 a 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 Hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>
	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 no 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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	and contamination. Keep in a dry, cool place.	
8. EXP(	JRE CONTROLS / PERSONAL PROTECTION	
Respiratory protection	: No personal respiratory protective equipment normally required.	
Eye/Face Protection	: Safety glasses with side-shields.	
Hand protection	: Protective gloves.	
Skin and body protection	: Long sleeved clothing.	
Additional Protective Measures	: Safety shoes.	
General Hygiene Considerations	: Handle in accordance with good industrial hygiene and safety practic Wash hands before breaks and at the end of workday.	e.
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:
C.I. Pigment Red 108	0.005	Time Weighted Average	as Cd	OSHA
	mg/m3	(TWA):		
	0.0025	OSHA Action level:	as Cd	OSHA
	mg/m3			
	0.2 mg/m3	PEL:	as Se	OSHA Z1
	0.01	Time Weighted Average	as Cd	ACGIH
	mg/m3	(TWA):		
	0.2 mg/m3	Time Weighted Average	as Se	ACGIH
		(TWA):		
	0.002	Time Weighted Average	Respirable fraction. as	ACGIH
	mg/m3	(TWA):	Cd	
Titanium dioxide	10 mg/m3	Time Weighted Average		ACGIH
		(TWA):		
	15 mg/m3	PEL:	Total dust.	OSHA Z1

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Color Odor Melting point/range Boiling Point: Water solubility
- Solid
  Pellets
  RED
  Very faint
  Not determined
  Not applicable
  Insoluble
- Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density pH
- Not applicable
  Not determined
  Not established
  Not applicable
  Not applicable
  Not applicable



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	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.	
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.
58339-34-7	C.I. Pigment Red 108	Irritant	Eyes, Skin.
		Systemic effects	Liver, central nervous system
			(CNS), Kidney.

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
58339-34-7	C.I. Pigment Red 108	yes	1	1

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.

#### **Additional Health Hazard Information:**

C.I. Pigment Red 108 58339-34-7 Can produce rapid and sometimes fatal pulmonary edema, chronic absorption leads to liver and kidney damage.

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



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Persistence and degradability Environmental Toxicity Bioaccumulation Potential	<ul><li>Not readily biodegradable.</li><li>Chemicals are not readily available as they are bound within the</li></ul>
Environmental Toxicity	
Bioaccumulation Potential	polymer matrix.
	: Chemicals are not readily available as they are bound within the polymer matrix.
Additional advice	: No data available
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastic plastics the product can be recycled. When 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 materi 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 required for transportation
ICAO/IATA (air)	<ul><li>Not regulated for transportation.</li><li>Refer to specific regulation.</li></ul>
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 TSC Inventory.
US. EPA CERCLA Hazardous S	Substances (40 CFR 302)
Not applicable	
California Proposition	: WARNING! This product contains a chemical known to the State of

PolyOne.

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vision Date 11/02/2004       Print Date 1         65       California to cause cancer., WARNING! This product contains chemical known to the State of California to cause birth defects other reproductive harm.         SARA Title III Section 302 Extremely Hazardous Substance Not applicable       SARA Title III Section 313 Toxic Chemicals:         Chemical Name       CAS-No.       Weight %         CADMIUM COMPOUNDSSELENIUM       58339-34-7       15.00         Canadian Regulations:       National Pollutant Release Inventory (NPRI)       1	http://dx/dimensional contents of this product are on the Canadian Domestic         chain III Section 302 Extremely Hazardous Substance         pile III Section 302 Extremely Hazardous Substance         pile III Section 313 Toxic Chemicals:         hemical Name       CAS-No.         ADMIUM COMPOUNDSSELENIUM       58339-34-7         ADMIUM COMPOUNDSSELENIUM       58339-34-7         Maximum       CAS-No.         Weight %       NPRI ID#         Mome CAS-No.       Weight %         None       CAS-No.         Weight 96       15.00         ADMIUM COMPOUNDSSELENIUM       58339-34-7         Mome CAS-No.       Weight 96         None       CAS-No.         Weight 96       233         Pigment Red 108       58339-34-7         Pigment Red 108       58339-34-7         Pigment Red 108       58339-34-7         Start Classification : D2A       D2A         HMIS Classification : D2A       All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.         Inventories:       astralia AICS : Listed         ania IECS : Listed       Listed         pan ENCS : Listed       Listed         urope EINECS : Listed       Listed         uilippines PICCS :	ision Date 11/02/2004       Print Date 11/162         65       California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.         SARA Title III Section 302 Extremely Hazardous Substance Not applicable         SARA Title III Section 313 Toxic Chemicals: <u>Chemical Name</u> <u>CAS-No.         </u> <u>Weight %         COMPOUNDS          Saradian Regulations:         National Pollutant Release Inventory (NPRI)         National Pollutant Release Inventory (NPRI)         National Pollutant Release Inventory (NPRI)         VHMIS Classification :       D2A         WHMIS Classification :       D2A         WHMIS Ingredient Disclosure List          <u>CAS-No.         Sa339-34-7         15.00         200          Substances List (DSL) or are exempt.          Substances List (DSL) or are exempt.         National Inventories:          Listed         Australia AICS :          Listed         Europe EINECS :          Listed         Japan ENCS :          Listed         Puipen EPICCS :          Listed         Philippines PICCS :          Listed   </u></u>	=D						
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PolyOne

### MATERIAL SAFETY DATA SHEET

### RED

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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.