

MATERIAL SAFETY DATA SHEET

#### **RED FLYER**

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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 FLYER	
Product code :	CC10057249	
Chemical Name :	Mixture	
CAS-No.	Mixture	
Product Use :	Industrial Applications	

#### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Iron oxide	1309-37-1	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Calcium carbonate	1317-65-3	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.



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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, 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 seel medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits	
Upper explosion limit sower explosion limit	<ul><li>Not applicable</li><li>Not applicable</li></ul>
Autoignition temperature	: Not applicable
Suitable extinguishing media	: Carbon dioxide blanket, water spray, dry powder, foamnone.
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne
Unusual Fire/Explosion Hazards	<ul> <li>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 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.



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: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

#### 8. EXPOSURE 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 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:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	13 PEL: Total dust.		OSHA Z1
Iron oxide	5 mg/m3	Time Weighted Average (TWA):	Dust and fume. as Fe	ACGIH
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

: Solid : Pellets : RED : Very faint : Not determined : Not applicable : Insoluble

Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density pН

: Not applicable : Not determined : Not established : Not applicable : Not applicable : Not applicable

#### **10. STABILITY AND REACTIVITY**

Stability

: Stable.

Hazardous Polymerization

: Will not occur.

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Conditions to avoid	r	eep away from oxidizing agents and open flame. To avoid thermal composition, do not overheat.			
Incompatible Mate	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. TOXICOLO	GICAL INFORMATI	ON		
health data for the	ot been evaluated as a whole fo individual components which c	r health effects. Expos	ON ure effects listed are based on existi		
health data for the <u>Toxicity Overview</u>	ot been evaluated as a whole fo individual components which c	r health effects. Exposion omprise the mixture.			
health data for the <u>Toxicity Overview</u>	ot been evaluated as a whole fo individual components which c	r health effects. Exposion omprise the mixture.	ure effects listed are based on existing the state of the		
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health data for the <u>Toxicity Overview</u> This product conta <u>CAS-No.</u>	ot been evaluated as a whole fo individual components which c ins the following components v Chemical Name	r health effects. Exposion omprise the mixture. which in their pure form Effect	ure effects listed are based on existing the following characteristics:		
health data for the <u>Toxicity Overview</u> This product conta <u>CAS-No.</u> 1309-37-1	ot been evaluated as a whole fo individual components which c ins the following components v Chemical Name Iron oxide	r health effects. Expose omprise the mixture. which in their pure form Effect Systemic effects	ure effects listed are based on existing have the following characteristics:           Target Organ           Respiratory system.		
health data for the <u>Toxicity Overview</u> This product conta <u>CAS-No.</u> <u>1309-37-1</u> <u>13463-67-7</u>	ot been evaluated as a whole fo individual components which c ins the following components v Chemical Name Iron oxide Titanium dioxide	r health effects. Expos omprise the mixture. which in their pure form Effect Systemic effects Systemic effects	ure effects listed are based on existing have the following characteristics:           Target Organ           Respiratory system.           Respiratory system.		

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation Potential	: 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. 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 materia has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION



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U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA (air)	:	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	Subs	stances (40 CFR 302)
Not applicable		
-	:	WARNING! This product contains a chemical known to the State of
65		California to cause cancer.
65 SARA Title III Section 302 Ext	reme	
	reme	
SARA Title III Section 302 Ext		ely Hazardous Substance
SARA Title III Section 302 Ext Not applicable		ely Hazardous Substance
SARA Title III Section 302 Ext Not applicable SARA Title III Section 313 Tox Not applicable	xic C	ely Hazardous Substance
SARA Title III Section 302 Ext Not applicable SARA Title III Section 313 Tox Not applicable Canadian Regulations:	xic C	ely Hazardous Substance
SARA Title III Section 302 Ext Not applicable SARA Title III Section 313 Tox Not applicable Canadian Regulations: National Pollutant Relea	xic C	ely Hazardous Substance
SARA Title III Section 302 Ext Not applicable SARA Title III Section 313 Tox Not applicable Canadian Regulations: National Pollutant Relea Not applicable	kic C se In	ely Hazardous Substance Chemicals: nventory (NPRI)
SARA Title III Section 302 Ext Not applicable SARA Title III Section 313 Tox Not applicable Canadian Regulations: National Pollutant Relea Not applicable WHMIS Classification	kic C se In :	ely Hazardous Substance Chemicals: nventory (NPRI) Not controlled. All components of this product are on the Canadian Domestic
SARA Title III Section 302 Ext Not applicable SARA Title III Section 313 Tox Not applicable Canadian Regulations: National Pollutant Relea Not applicable WHMIS Classification DSL	kic C se In :	ely Hazardous Substance Chemicals: nventory (NPRI) Not controlled. All components of this product are on the Canadian Domestic



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Europe EINECS	:	Listed
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 when used in combination with any other materials and/or in any particular process or processing conditions.