

MATERIAL SAFETY DATA SHEET

#### D2159 RED

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152

:	Product Stewardship (770) 590-3500 x.3563 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
:	D2159 RED
:	F000003226
:	Mixture
:	Mixture
:	Industrial Applications

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

Components	CAS-No.	Weight %
Molybdate orange (Lead chromate pigment)	12656-85-8	0.1 - 1
Lead oxide sulfate (Pb4O3(SO4))	12202-17-4	1 - 5

#### **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/skin irritation.		
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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	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 o 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 ey 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	: No data available		
Flammable Limits Upper explosion limit sower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <li>No data available</li> <li>No data available</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>May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) unde fire conditions. Carbon dioxide (CO2), carbon monoxide (CO), oxide of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>		
	5. ACCIDENTAL RELEASE MEASURES		
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.		
Environmental precautions	: The product should not be allowed to enter drains, water courses or th soil. Should not be released into the environment.		
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binde universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.		
	7. HANDLING AND STORAGE		
Handling	: Heat only in areas with appropriate exhaust ventilation. Processing		



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		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. EXI	POSUF	RE 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:
Lead oxide sulfate	0.05	Time Weighted Average	as Pb	OSHA
(Pb4O3(SO4))	mg/m3	(TWA):		
	0.05	Time Weighted Average	as Pb	ACGIH
	mg/m3	(TWA):		
Molybdate orange	0.05	Time Weighted Average	as Pb	OSHA
(Lead chromate	mg/m3	(TWA):		
pigment)				
	0.1 mg/m3	Ceiling Limit Value:		OSHA Z2
	0.01	Time Weighted Average	as Cr	ACGIH
	mg/m3	(TWA):		
	0.05	Time Weighted Average	as Pb	ACGIH
	mg/m3	(TWA):		

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Color Odor Melting point/range
- liquid
  Viscous, liquid
  RED
  Very faint
  Not applicable

Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density Not establishedNot determinedNot applicable

- : Not determined
- : Not determined



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6		ot applicable amiscible	рН	: Not applicable	
	1(	). STABILITY AND R	EACTIVITY		
Stability	:	Stable.			
Hazardous Polymerization	:	Will not occur.			
Conditions to avoid	:	Keep away from oxidiz decomposition, do not	00	ame. To avoid thermal	
Incompatible Materials	:	Incompatible with stro with acetal homopolyn	• •	agents., Avoid contact ners during processing.	
Hazardous decomposition products	:	(NOx), hydrogen chlor smoke are all possible. degradation. As a gene	Prolonged heating ma eral rule of thumb, degr C (350 °F), after 10 min	lous materials, and	

#### 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
12656-85-8	Molybdate orange (Lead chromate pigment)	Irritant	Eyes, Skin.
		Systemic effects	central nervous system (CNS), reproductive system.
12202-17-4	Lead oxide sulfate (Pb4O3(SO4))	Systemic effects	reproductive system, central nervous system (CNS).

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
12656-85-8	Molybdate orange (Lead	no	no	1
	chromate pigment)			
12202-17-4	Lead oxide sulfate	no	2B	no
	(Pb4O3(SO4))			

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.



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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:

Molybdate orange (Lead chromate pigment) 12656-85-8 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

#### Additional Health Hazard Information:

Lead oxide sulfate (Pb4O3(SO4)) 12202-17-4 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

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 materia 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 (air)	: Refer to specific regulation.
IMO / IMDG (maritime)	: Refer to specific regulation.
	15. REGULATORY INFORMATION



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US Regulations:				
OSHA Status :	Classified as hazardous	based on compo	nents.	
TSCA Status :	All components of this Inventory.	product are listed	on or exemp	pt from the TSCA
US. EPA CERCLA Hazardous Sub	stances (40 CFR 302)			
Not applicable				
Tot uppleuole				
California Proposition : 65	WARNING! This prod California to cause can chemical known to the other reproductive harr	cer., WARNING! State of Californi	This produ	ct contains a
SARA Title III Section 302 Extrem	ely Hazardous Substance	\$		
Not applicable				
SARA Title III Section 313 Toxic C	Thomicals:			
	chemicals.			
Chemical Name		CAS-No.	Weight	%
LEAD COMPOUNDS, INC		12202-17-4 12656-85-8	1.87	
CHROMIUM VI COMPOU COMPOUNDS	JNDSLEAD	12030-83-8	0.39	
Canadian Regulations:				
C				
National Pollutant Release In	nventory (NPRI)			
Chemical Name		CAS-No.	Weight %	NPRI ID#
Lead oxide sulfate (Pb4O3(SO	(4))	12202-17-4	1.87	246
Molybdate orange (Lead chror	10	12656-85-8	0.39	245
Molybdate orange (Lead chror	nate pigment)	12656-85-8	0.39	246
WHMIS Classification : WHMIS Ingredient Disclosu CAS-No. 12202-17-4 12656-85-8	ire List			
DSL :	All components of this	product are on th	le Canadian	Domestic



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		Substances List (DSL) or are exempt.
National Inventories:		
Australia AICS	:	Not determined
China IECS	:	Not determined
Europe EINECS	:	Not determined
Japan ENCS	:	Not determined
Korea KECI	:	Not determined
Philippines PICCS	:	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 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.