

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****HM RED P7417C PE OUT**Version Number 1.0
Revision Date 04/02/2014Page 1 of 9
Print Date 4/10/2014**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**
33587 Walker Road, Avon Lake, OH 44012

Telephone : 1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**
number

Product name : HM RED P7417C PE OUT
Product code : CC10197028
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetramethyl-4-piperidiny)-,polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products	70624-18-9	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Cadmium sulfoselenide orange (Orange 20)	12656-57-4	5 - 10
Barium sulfate	7727-43-7	10 - 30
C.I. Pigment Red 108	58339-34-7	10 - 30
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**Routes of Exposure:** : Inhalation, Ingestion, Skin contact**Acute exposure**

Inhalation : Resin particles, like other inert materials, can be mechanically

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HM RED P7417C PE OUT

Version Number 1.0
Revision Date 04/02/2014

Page 2 of 9
Print Date 4/10/2014

<p>Ingestion Eyes Skin</p>	<p>irritating. : May be harmful if swallowed. : Resin particles, like other inert materials, are mechanically irritating to eyes. : Experience shows no unusual dermatitis hazard from routine handling.</p>
<p>Chronic exposure</p>	<p>: Refer to Section 11 for Toxicological Information.</p>
<p>Medical Conditions Aggravated by Exposure:</p>	<p>: None known.</p>

4. FIRST AID MEASURES

<p>Inhalation Ingestion Eyes Skin</p>	<p>: 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. : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice. : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention. : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.</p>
------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

5. FIREFIGHTING MEASURES

<p>Flash point Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards</p>	<p>: not applicable : not applicable : not applicable : not applicable : Carbon dioxide blanket, Water spray, Dry powder, Foam. : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

6. ACCIDENTAL RELEASE MEASURES

<p>Personal precautions Environmental precautions</p>	<p>: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls. : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.</p>
----------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HM RED P7417C PE OUT

Version Number 1.0
Revision Date 04/02/2014

Page 3 of 9
Print Date 4/10/2014

Methods for cleaning up : Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal.

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 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)

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HM RED P7417C PE OUT

Version Number 1.0
Revision Date 04/02/2014

Page 4 of 9
Print Date 4/10/2014

Components	Value	Exposure time	Exposure type	List:
Barium sulfate	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	5 mg/m3	Recommended exposure limit (REL):	Respirable.	NIOSH
	10 mg/m3	Recommended exposure limit (REL):	Total	NIOSH
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	Cadmium sulfoselenide orange (Orange 20)	0.01 mg/m3	Time Weighted Average (TWA):	as Cd
0.002 mg/m3		Time Weighted Average (TWA):	Respirable fraction. as Cd	ACGIH
0.005 mg/m3		Time Weighted Average (TWA):		OSHA
0.0025 mg/m3		OSHA Action level:		OSHA
0.002 mg/m3		Time Weighted Average (TWA):	Respirable dust. as Cd	MX OEL
0.01 mg/m3		Time Weighted Average (TWA):	Total dust. as Cd	MX OEL
0.2 mg/m3		Time Weighted Average (TWA):	as Se	ACGIH
0.2 mg/m3		PEL:	as Se	OSHA Z1
0.2 mg/m3		Time Weighted Average (TWA):	as Se	OSHA Z1A
0.2 mg/m3		Time Weighted Average (TWA):	as Se	MX OEL
C.I. Pigment Red 108		0.01 mg/m3	Time Weighted Average (TWA):	as Cd
	0.002 mg/m3	Time Weighted Average (TWA):	Respirable fraction. as Cd	ACGIH
	0.005 mg/m3	Time Weighted Average (TWA):		OSHA
	0.0025 mg/m3	OSHA Action level:		OSHA
	0.002 mg/m3	Time Weighted Average (TWA):	Respirable dust. as Cd	MX OEL
	0.01 mg/m3	Time Weighted Average (TWA):	Total dust. as Cd	MX OEL
	0.2 mg/m3	Time Weighted Average (TWA):	as Se	ACGIH
	0.2 mg/m3	PEL:	as Se	OSHA Z1
	0.2 mg/m3	Time Weighted Average (TWA):	as Se	OSHA Z1A

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HM RED P7417C PE OUT

Version Number 1.0
Revision Date 04/02/2014

Page 5 of 9
Print Date 4/10/2014

	0.2 mg/m3	Time Weighted Average (TWA):	as Se	OSHA Z1A
	0.2 mg/m3	Time Weighted Average (TWA):	as Se	MX OEL
	0.2 mg/m3	Recommended exposure limit (REL):	as Se	NIOSH
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):		MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
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 (STEL):	as Ti	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid	Evaporation rate	: Not applicable
Appearance	: pellets	Specific Gravity	: Not determined
Colour	: RED	Bulk density	: Not established
Odour	: very faint	Vapour pressure	: not applicable
Melting point/range	: Not determined	Vapour density	: not applicable
Boiling Point:	: not applicable	pH	: not applicable
Water solubility	: insoluble		

10. STABILITY AND REACTIVITY

Stability	: The product is stable if stored and handled as prescribed.
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 (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HM RED P7417C PE OUT

Version Number 1.0
Revision Date 04/02/2014

Page 6 of 9
Print Date 4/10/2014

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
70624-18-9	1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetramethyl-4-piperidiny)-,polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products	Irritant	Eyes, Skin, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
12656-57-4	Cadmium sulfoselenide orange (Orange 20)	Irritant	Eyes, Skin.
		Systemic effects	Liver, Kidney, central nervous system (CNS).
7727-43-7	Barium sulfate	Irritant	Respiratory system.
		Systemic effects	Eyes, Respiratory system.
58339-34-7	C.I. Pigment Red 108	Irritant	Eyes, Skin.
		Systemic effects	Liver, central nervous system (CNS), Kidney.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, 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
70624-18-9	1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetramethyl-4-piperidiny)-,polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products	Oral LD50 Dermal LD50	> 2,000 mg/kg > 3,000 mg/kg	rat rat

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
12656-57-4	Cadmium sulfoselenide orange (Orange 20)	yes	1	no
58339-34-7	C.I. Pigment Red 108	yes	1	no

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.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HM RED P7417C PE OUT

Version Number 1.0
Revision Date 04/02/2014

Page 7 of 9
Print Date 4/10/2014

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

- 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 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.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HM RED P7417C PE OUT

Version Number 1.0
Revision Date 04/02/2014

Page 8 of 9
Print Date 4/10/2014

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

California Proposition 65 : WARNING! This product contains a chemical known to the State of 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

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

Chemical Name	CAS-No.	Weight percent
CADMIUM COMPOUNDSSELENIUM COMPOUNDS	12656-57-4	5.00 - 10.00
CADMIUM COMPOUNDSSELENIUM COMPOUNDS	58339-34-7	10.00 - 30.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight percent	NPRI ID#
Cadmium sulfoselenide orange (Orange 20)	12656-57-4	5.00 - 10.00	
		5.00 - 10.00	
C.I. Pigment Red 108	58339-34-7	10.00 - 30.00	
		10.00 - 30.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
12656-57-4
58339-34-7

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

HM RED P7417C PE OUT

Version Number 1.0
Revision Date 04/02/2014

Page 9 of 9
Print Date 4/10/2014

National Inventories:

Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
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 used in combination with any other materials or in any process, unless specified in the text.