MATERIAL SAFETY DATA SHEET **157C ORANGE PE 10%**

Version Number 1.2 Revision Date 03/23/2014

Product Use

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1.	PROD	UCT AND COMPANY IDENTIFICATION
POLYONE CORPORAT 33587 Walker Road, Avo		ОН 44012
Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	157C ORANGE PE 10%
Product code	:	CC10140212
Chemical Name	:	Mixture
CAS-No.	:	Mixture

2. COMPOSITION/INFORMATION ON INGREDIENTS

: Industrial Applications

Components	CAS-No.	Weight percent
Calcium carbonate	1317-65-3	10 - 30
Titanium dioxide	13463-67-7	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

: Inhalation, Ingestion, Skin contact
: Resin particles, like other inert materials, can be mechanically 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.
: Refer to Section 11 for Toxicological Information.

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Medical Conditions Aggravated by Exposure:	: None known.
	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 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 seek medical attention.
	5. FIREFIGHTING MEASURES
Flash point	: not applicable
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 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 (NOx), other hazardous materials, and smoke are all possible.
	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.
	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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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)

Components	Value	Exposure time	Exposure type	List:
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 Appearance Colour Odour Melting point/range
- : solid
 : pellets
 : ORANGE
 : very faint
 : Not determined
- Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density
- Not applicable
 Not determined
 Not established
 not applicable
 not applicable

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Boiling Point: Water solubility	: not applicable : insoluble	рН	: not applicable
	10. STABILITY A	ND REACTIVITY	
Stability	: The product is sta	able if stored and han	dled as prescribed.
Hazardous Polymerization	n : Will not occur.		
Conditions to avoid	: Keep away from decomposition, d	00	open flame. To avoid thermal
Incompatible Materials	: Incompatible wit	h strong acids and ox	idizing agents.
Hazardous decomposition products		,.	ide (CO), oxides of nitrogen 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
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory
			system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

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

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.

12. ECOLOGICAL INFORMATION

Persistence and degradability

: Not readily biodegradable.

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Bioaccumulation Potential:Chemic polymeAdditional advice:no dataAdditional advice:no dataImage: Display transmission:Like m possibl generat classifi applicaProduct:Like m possibl generat classifi applicaContaminated packaging:Recycle materia transpo state/prU.S. DOT Classification:Not reg Refer to ICAO/IATAICAO/IATA:Refer to Refer to indication	e recycling is preferred to disposal or incineration. The or of waste material has the responsibility for proper waste cation, transportation and disposal in accordance with
Bioaccumulation Potential:Chemic polymeAdditional advice:no dataAdditional advice:no dataImage: Display transmission:Like m possibl generat classifi applicaProduct:Like m possibl 	r matrix. cals are not readily available as they are bound within the r matrix. available DSAL CONSIDERATIONS ost thermoplastic plastics the product can be recycled. Where e recycling is preferred to disposal or incineration. The or of waste material has the responsibility for proper waste cation, transportation and disposal in accordance with
Additional advice : no data I I I I I I I I I I I I I I I I I I I	r matrix. available DSAL CONSIDERATIONS ost thermoplastic plastics the product can be recycled. Where e recycling is preferred to disposal or incineration. The or of waste material has the responsibility for proper waste cation, transportation and disposal in accordance with
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ICAO/IATA : Refer to IMO/IMDG (maritime) : Refer to	NSPORT INFORMATION
IMO/IMDG (maritime) : Refer to	ulated for transportation.
	o specific regulation.
15. REGU	o specific regulation.
	LATORY INFORMATION
US Regulations:	
OSHA Status : Classif	ed as hazardous based on components.
	nponents of this product are listed on or exempt from the Inventory.
US. EPA CERCLA Hazardous Substances (40 CFR 302)
not applicable	
California Proposition : Not app 65	-1'k1-
	blicable

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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:

U	nless specific chemicals are identified under this section, this	s product is Not Ap	plicable under this	s regulation
	Chemical Name	CAS-No.	Weight percent	
	ZINC COMPOUNDS	68187-51-9	1.00 - 5.00	

Canadian Regulations:

National Pollutant Release Inventory (NPRI)			
Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Aluminum oxide	1344-28-1	0.10 - 1.00	
Zinc ferrite brown spinel (C.I. Pigment Yellow	68187-51-9	1.00 - 5.00	
119)			

WHMIS Classification : D2A

DSL

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

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.