## MATERIAL SAFETY DATA SHEET **ORANGE 15-1153 HDPE**

Version Number 1.0 Revision Date 06/25/2007

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

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

Telephone:Emergency telephone:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	ORANGE 15-1153 HDPE
Product code	CC10101483
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	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</li> </ul>
Skin	<ul> <li>Resin particles, fixe other metrimaterials, are meenaneanly inflating to eyes.</li> <li>Experience shows no unusual dermatitis hazard from routine handling.</li> </ul>
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 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 seek medical attention.
		5. FIRE-FIGHTING MEASURES
Flash point	:	Not applicable
Flammable Limits		
Upper explosion limit		Not applicable
Lower explosion limit	•	Not applicable
Autoignition temperature	•	Not applicable
Suitable extinguishing media	:	Carbon dioxide blanket, Water spray, Dry powder, Foam.
Special Fire Fighting Procedures	:	Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A	CCIDENTAL 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.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption

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0. E	LAPOSURE	CONTROLS / PERSON	AL PROTECTION	
Respiratory protection	: N	lo personal respiratory prot	tective equipment nor	mally required.
Eye/Face Protection	: S	afety glasses with side-shi	elds	
Hand protection	: P	rotective gloves		
Skin and body protection	: L	ong sleeved clothing		
Additional Protective Measures	: S	afety shoes		
General Hygiene Considerations		andle in accordance with g ash hands before breaks a		
Engineering measures		leat only in areas with appr ppropriate exhaust ventilat		ation. Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure typ	be List:
Titanium dioxide	10 mg/m3	Time Weighted Averag (TWA):	e	ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Averag (TWA):	e as Ti	MX OEL
	20 mg/m3	Short Term Exposure Lir (STEL):	MX OEL	
			DODEDTIES	
	9. PHYSIC	CAL AND CHEMICAL I	ROPERTIES	
Form	: Solic	l Ev	aporation rate :	Not applicable
Appearance	: pelle	ts Sp	ecific Gravity :	Not determined
Color	: ORA		lk density :	Not established
Odour			pour pressure :	Not applicable
Melting point/range			pour density :	Not applicable
Boiling Point: Water solubility	: Insol	applicable pH		Not applicable
water solubility	. 111501			
	10. 8	STABILITY AND REAC	TIVITY	
Stability	: S	table.		
Hazardous Polymerization	n : V	Vill not occur.		
Conditions to avoid	: К	eep away from oxidizing a	agents and open flame	. To avoid thermal

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		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.

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.	
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	
	1	3. DISPOSAL CONSIDERATIONS	
Product	:	Like most thermoplastic plastics the product can be recycled. Where	

possible recycling is preferred to disposal or incineration. The

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	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 (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 Hazardou	s Substances (40 CFR 302)
Not applicable	
California Propositior 65	: Not applicable
SARA Title III Section 302 E	xtremely Hazardous Substance
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regulation
CADA Title III Section 212 T	oxic Chemicals:
SARA Thuế III Secuoli 515 I	
	identified under this section, this product is Not Applicable under this regulation

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National Poll	utant Release	e In	ventory (NPRI)				
Chemical Name				CAS-No.	Weight %	NPRI ID	#
Aluminum oxide				1344-28-1	0.10 - 1.00	13	
WHMIS Cla WHMIS Ingr	ssification redient Disclo						
	S-No. -13-0						
DSL		:		of this product are (DSL) or are exem		n Domestic	
National Inventories	5:						
Australia AI	CS	:	Listed				
China IECS		:	Listed				
Europe EINI	ECS	:	Listed				
Japan ENCS	1	:	Listed				
Korea KECI		:	Listed				
Philippines F	PICCS	:	Listed				
			16. OTHER IN	FORMATION			

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.