MATERIAL SAFETY DATA SHEET ORANGE

Version Number 1.1 Revision Date 08/29/2007

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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
Product code	:	CC10086936
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	1 - 5
Anatase (TiO2)	1317-70-0	5 - 10

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 Ingestion	Resin particles, like other inert materials, can be mechanically irritating.May be harmful if swallowed.
Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.
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 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
P 1		
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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8. E	XPOSURE	CONTROLS / PERSONA	AL PROTECTION	[
Respiratory protection	: N	o personal respiratory prot	ective equipment no	rmally required.		
Eye/Face Protection	: S	: Safety glasses with side-shields				
Hand protection	: P	: Protective gloves				
Skin and body protection	: L	: Long sleeved clothing				
Additional Protective Measures	: S	afety shoes				
General Hygiene Considerations						
Engineering measures		leat only in areas with appropriate exhaust ventilati		ilation. Provide		
Exposure limit(s)						
Components	Value	Exposure time	Exposure ty	ype List:		
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	2	ACGIH		
	15 mg/m3	PEL:	Total dust	t. OSHA Z1		
	10 mg/m3	Time Weighted Average (TWA):	e as Ti	MX OEL		
	20 mg/m3	Short Term Exposure Lin (STEL):	nit as Ti	MX OEL		
	9. PHYSIC	CAL AND CHEMICAL P	ROPERTIES			
Form	: Solid		aporation rate	: Not applicable		
Appearance	: pelle		cific Gravity	: Not determined		
Color			lk density	: Not established		
Odour	: Very	faint Va	pour pressure	: Not applicable		
Melting point/range		: Not determined Vapour density : Not applicable				
Boiling Point:	: Not applicable pH : Not applicable					
Water solubility : Insoluble						
	10. 8	STABILITY AND REAC	ΓΙVΙΤΥ			
Stability	: S	table.				
Hazardous Polymerization	n : W	Vill not occur.				
Conditions to avoid	: K	eep away from oxidizing a	gents and open flam	e. To avoid thermal		

PolyOne.

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sion Number 1.1 <u>Acc</u> Page 4 o <u>Acc</u> Print Date <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/3</u>	decomposition, of Incompatible Materials : Hazardous decomposition : products : Carbon dioxide (NOx), other haz 11. TOXICOLOGIC This mixture has not been evaluated as a whole for he health data for the individual components which comp Toxicity Overview This product contains the following components which comp CAS-No. Chemical Name 13463-67-7 Titanium dioxide Carcinogenicity This product contains the following components which data: CAS-No. Chemical Name	ith strong acids and o (CO2), carbon mono zardous materials, an CAL INFORMATIC ealth effects. Exposu prise the mixture. ch in their pure form Effect Systemic effects ch, in their pure form	exidizing agents. axide (CO), oxides of ad smoke are all poss DN are effects listed are have the following of Target O Respiratory syster	ate <u>11/30/20</u> f nitrogen sible. based on existi characteristics: brgan m.		
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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.	12. ECOLOGICA	L INFORMATION				
Bioaccumulation Potential : Chemicals are not readily available as they are bound within the polymer matrix.	Persistence and degradability : Not readily biod	legradable.				
polymer matrix.						
Additional advice : No data available						
	Additional advice : No data available					

Product

: Like most thermoplastic plastics the product can be recycled. Where



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	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 mater has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.	ial
	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 TSC Inventory.	A
US. EPA CERCLA Hazardou	Substances (40 CFR 302)	
Not applicable		
California Proposition 65	: Not applicable	
SARA Title III Section 302 E	remely Hazardous Substance	
Unless specific chemicals are	lentified under this section, this product is Not Applicable under this regu	lat
SARA Title III Section 313 T	xic Chemicals:	
Unless specific chemicals are	lentified under this section, this product is Not Applicable under this regu	lat
Canadian Regulations:		
2		



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	National Pollutant Release Inventory (NPRI)						
Ν	Not applicable						
	WHMIS Classification	:	D2A				
	DSL	:	DSL status has not been determined. Quantity use in Canada may be restricted by regulations.				
Natio	onal 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 used in combination with any other materials or in any process, unless specified in the text.