MATERIAL SAFETY DATA SHEET

Smooth Vive Orange Inner Bilayer

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	Smooth Vive Orange Inner Bilayer
Product code	:	CC10054755
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	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 Eyes	 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 over
Skin	eyes. : 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 seek medical attention.
	5	5. FIRE-FIGHTING MEASURES
Flash point	:	Not applicable
Flammable Limits Upper explosion limit sower explosion limit Autoignition temperature Suitable extinguishing media	: : :	Not applicable Not applicable Not applicable Carbon dioxide blanket, water spray, dry powder, foamnone.
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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	aı	nd contamination. Keep in	n a dr	y, cool place.	
8. F	XPOSURE	CONTROLS / PERSON	NAL F	PROTECTION	
Respiratory protection	: N	o personal respiratory pro	otectiv	e equipment normally 1	equired.
Eye/Face Protection	: S	afety glasses with side-shi	ields.		
Hand protection	: P	: Protective gloves.			
Skin and body protection	: L	: 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:
Titanium dioxide	10 mg/m3	Time Weighted Average	ge	Exposure type	ACGIH
	-	(TWA):	-		
	15 mg/m3	PEL:		Total dust.	OSHA Z1
	9. PHYSIC	CAL AND CHEMICAL	PRO	PERTIES	
Form Appearance Color Odor Melting point/range Boiling Point: Water solubility	: Very : Not c	ts Sp NGE Bu faint Va determined Va applicable pH	pecific ulk de apor p apour	c Gravity: : Not nsity : Not pressure : Not density : Not	applicable determined established applicable applicable applicable
	10. S	STABILITY AND REAC	CTIV	ITY	
Stability	: S	table.			
Hazardous Polymerization	n : W	Vill not occur.			
Conditions to avoid		eep away from oxidizing ecomposition, do not over		s and open flame. To a	void thermal
Incompatible Materials	: Ir	acompatible with strong ac	cids a	nd oxidizing agents.	

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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. 13463-67-7	Chemical Name	Effect	Target Organ		
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.		
	12. ECOLOGIO	CAL INFORMATION	1		
Persistence and degrad	ability : Not readily bi	iodegradable.			
Environmental Toxicit		: Chemicals are not readily available as they are bound within the matrix of the polymer.			
Bioaccumulation Poten		: Chemicals are not readily available as they are bound within the matrix of the polymer.			
Additional advice	: No data avail	able			
	13. DISPOSAL	CONSIDERATIONS	5		
Product Contaminated packagir	g : Recycling is phase the response of the recycling is phase the response of	 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. 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. TRANSPO	RT INFORMATION			
U.S. DOT Classificatio	n : Not regulated	for transportation.			
ICAO/IATA (air)	: Refer to speci	ific regulation.			
IMO / IMDG (maritime	e) : Refer to speci	ific regulation.			
	15. REGULATO	DRY INFORMATION	N		

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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.
US. EPA CERCLA Hazardous	Sub	stances (40 CFR 302)
Not applicable		
California Proposition 65	:	This product does not contain a substance listed by California Prop 6.
SARA Title III Section 302 Ext	rem	ely Hazardous Substance
Not applicable		
SARA Title III Section 313 Tox	cic (Chemicals:
Not applicable Canadian Regulations:		
National Pollutant Relea	se Iı	nventory (NPRI)
Not applicable		
WHMIS Classification	:	Not controlled.
DSL	:	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
	:	Listed
Japan ENCS		Listed
Japan ENCS Korea KECI	:	Listed
-	:	Listed



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