

MATERIAL SAFETY DATA SHEET

MANDARIN

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone : number		CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	MANDARIN
Product code	:	CC10024689
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %	
Titanium dioxide	13463-67-7	1 - 5	

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:	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 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 o 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
Flammable Limits	N (
Upper explosion limit	: Not applicable
Lower explosion limit Autoignition temperature	: Not applicable : Not relevant
Suitable extinguishing media	: Carbon dioxide blanket, Water spray, dry powder, foam.
Suitable extinguishing media	. Carbon dioxide blanker, water spray, dry powder, toani.
Special Fire Fighting	: Fullface self-contained breathing apparatus (SCBA) used in positive
Procedures	pressure mode should be worn to prevent inhalation of airborne
	contaminants.
Unusual Fire/Explosion Hazards	: None
	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. Refer to Section 12 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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	a	nd contamination. Kee	ep in a d	ry, cool place.		
8. 1	EXPOSURE	CONTROLS / PERS	ONAL	PROTECTION		
Respiratory protection	: N	lo personal respiratory	protecti	ve equipment norr	nally r	equired.
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		leat only in areas with a ppropriate exhaust ven			ation.	Provide
Exposure limit(s)						
Components	Value	Exposure time		Exposure typ	be	List:
Titanium dioxide	10 mg/m3	Time Weighted Ave (TWA):	erage	Dust.		ACGIH
Titanium dioxide	15 mg/m3	PEL:		Total dust.		OSHA Z
	9. PHYSIC	CAL AND CHEMICA	AL PRC	PERTIES		
Form	: Solic	1	Evapor	ration rate :	Not	applicable.
	: Pelle				determined	
Appearance	: RED		Bulk d			established
Appearance Color					1,00	
Color				•	Not	applicable
Color Odor	: Very	y faint	Vapor	pressure :		applicable applicable
Color Odor Melting point/range	: Very : Not o	faint determined	Vapor Vapor	•	Not	applicable
Color Odor	: Very : Not o	r faint determined applicable	Vapor	pressure :	Not	
Color Odor Melting point/range Boiling Point:	: Very : Not o : Not a : Insol	r faint determined applicable	Vapor Vapor pH	pressure : density :	Not	applicable
Color Odor Melting point/range Boiling Point:	: Very : Not o : Not a : Insol 10. S	r faint determined applicable uble	Vapor Vapor pH	pressure : density :	Not	applicable
Color Odor Melting point/range Boiling Point: Water solubility	: Very : Not a : Not a : Insol 10. S : S	y faint determined applicable luble STABILITY AND RE	Vapor Vapor pH	pressure : density :	Not	applicable
Color Odor Melting point/range Boiling Point: Water solubility Stability	: Very : Not a : Not a : Insol 10. S : S n : W : K	r faint determined applicable luble STABILITY AND RE table.	Vapor Vapor pH <u>ACTIV</u> ng agen	pressure : density : TTY ts and open flame	Not Not	applicable applicable



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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:

13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.				
	12. ECOLOGI	CAL INFORMATION	N				
Persistence and degrada	ability : Not readily b	viodegradable.					
Environmental Toxicity		Chemicals are not readily available as they are bound within the matrix of the polymer.Chemicals are not readily available as they are bound within the matrix of the polymer.					
Bioaccumulation Poten							
Additional advice	: No data avai	lable.					
	13. DISPOSAL	CONSIDERATIONS	5				
Product Contaminated packagin	g : Recycling is has the respo and disposal	 Like most thermoplastics 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	PRT INFORMATION					
U.S. DOT Classification	n : Refer to spec	rific regulation.					
ICAO/IATA	: Refer to spec	cific regulation.					
IMO / IMDG	: Refer to spec	tific regulation.					
	15. REGULAT	ORY 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 the TSCA inventory or are exempt.
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 65.
Canadian Regulations:		
WHMIS Classification	:	D2B
DSL	:	Listed.
National Inventories:		
Australia AICS	:	Listed.
China IECS	:	Listed.
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.

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