# MATERIAL SAFETY DATA SHEET **ORANGE 471C**

## Version Number 1.0 Revision Date 09/01/2004

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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	:	ORANGE 471C
Product code	:	CC10058331
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

#### **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	<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 eyes.</li> </ul>
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
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>
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 1: 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 / PER	SONAL	PROTECTION	
Respiratory protection	: N	lo personal respirator	y protecti	ve equipment normally	required.
Eye/Face Protection	: S	afety glasses with sic	le-shields		
Hand protection	: P	rotective gloves.			
Skin and body protection	: L	ong sleeved clothing			
Additional Protective Measures	: S	afety shoes.			
General Hygiene Considerations				industrial hygiene and at the end of workday.	safety practice
Engineering measures		leat only in areas with ppropriate exhaust ve		iate exhaust ventilation at machinery.	. Provide
Exposure limit(s)					
Components	Value	Exposure tin	ne	Exposure type	List:
Titanium dioxide	10 mg/m3	Time Weighted A (TWA):			ACGIH
	15 mg/m3	PEL:		Total dust.	OSHA Z1
	9. PHYSIC	CAL AND CHEMIC	CAL PRO	PERTIES	
P					. 1. 1.1
Form Appearance	: Solic : Pelle				ot applicable ot determined
Color	: ORA		Bulk d		ot established
Odor	: Very				ot applicable
Melting point/range		determined			ot applicable
Boiling Point:		applicable	pH		ot applicable
Water solubility	: Insol	uble			
	10. 8	STABILITY AND R	REACTIV	<b>VITY</b>	
Stability	: S	table.			
Hazardous Polymerization	n : W	Vill not occur.			
		eep away from oxidi ecomposition, do not		ts and open flame. To	avoid thermal
Conditions to avoid	u	ceomposition, do not			



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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 Titanium dioxide	Effect Systemic effects	Target OrganRespiratory system.			
13403-07-7		Systemic effects	Respiratory system.			
	12. ECOLOGI	CAL INFORMATION	1			
Persistence and degrada	bility : Not readily b	viodegradable.				
Environmental Toxicity		: Chemicals are not readily available as they are bound within the polymer matrix.				
Bioaccumulation Poten		: Chemicals are not readily available as they are bound within the polymer matrix.				
Additional advice	: No data avail	lable				
	13. DISPOSAL	<b>CONSIDERATIONS</b>	5			
Product Contaminated packagin	g : Recycling is has the respo and disposal	: 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.				
	14. TRANSPO	ORT INFORMATION				
U.S. DOT Classification	n : Not regulated	l for transportation.				
ICAO/IATA (air)	: Refer to spec	ific regulation.				
IMO / IMDG (maritime	e) : Refer to spec	ific regulation.				
	15. REGULAT	ORY INFORMATION	N			

PolyOne.

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US Regulations:					
OSHA Status	· C	location on horar	dous based on compon	onto	
			dous based on compon		1 7 9 9
TSCA Status		All components of iventory.	this product are listed	on or exempt from	the TSC.
US. EPA CERCLA Haz	zardous Substar	nces (40 CFR 302	2)		
Not applica	able				
California Propo 65		ARNING! This alifornia to cause	product contains a che cancer.	emical known to th	e State of
SARA Title III Section	302 Extremely	Hazardous Subst	ance		
Not applicable					
SARA Title III Section	313 Toxic Che	micals.			
	JIJ IOAIC CIIC	inicals.			
			CAS No	Waight 0/	1
Chemical Name ZINC COMPO			CAS-No. 68187-51-9	Weight % 6.05	
Chemical Name	UNDS	ntory (NPRI)			
Chemical Name ZINC COMPO Canadian Regulations:	UNDS nt Release Inve	• • •			
Chemical Name ZINC COMPO Canadian Regulations: National Pollutar	UNDS nt Release Inve fication : N : A	ot controlled.		6.05	tic
Chemical Name ZINC COMPO Canadian Regulations: National Pollutar WHMIS Classif	UNDS nt Release Inve fication : N : A	ot controlled.	68187-51-9	6.05	tic
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### **16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belier 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 when used in combination with any other materials and/or in any particular process or processing conditions.