

MATERIAL SAFETY DATA SHEET

GRAY 404C

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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	:	GRAY 404C
Product code	:	CC10056249
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications
Product code Chemical Name CAS-No.	:	CC10056249 Mixture Mixture

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
2,4,8,10-Tetraoxa-3,9-diphosphaspiro[5.5]un	26741-53-7	1 - 5
decane,		
3,9-bis[2,4-bis(1,1-dimethylethyl)phenoxy]-		
Phenol,	25973-55-1	5 - 10
2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimeth		
ylpropyl)-		
Iron oxide	1309-37-1	1 - 5
Rutile, antimony chromium buff	68186-90-3	5 - 10
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

 Routes of Exposure:
 : Inhalation, Ingestion, Skin contact

 Acute exposure

Inhalation: Resin particles, like other inert materials, can be mechanically irritating.Ingestion: May be harmful if swallowed.Eyes: Resin particles, like other inert materials, are mechanically irritating to eyes.



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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.
	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 sower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting	 Not applicable Not applicable Not applicable Carbon dioxide blanket, water spray, dry powder, foamnone. 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	: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	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.



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		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 and contamination. Keep in a dry, cool place.
8. EXF	OSUI	RE CONTROLS / PERSONAL PROTECTION
Respiratory protection	:	No personal respiratory protective equipment normally required.
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	:	Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Iron oxide	5 mg/m3	Time Weighted Average	Dust and fume. as Fe	ACGIH
		(TWA):		
Rutile, antimony	1 mg/m3	PEL:		OSHA Z1
chromium buff				
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average	as Cr	ACGIH
		(TWA):		
	0.5 mg/m3	Time Weighted Average	as Sb	ACGIH
		(TWA):		
Titanium dioxide	10 mg/m3	Time Weighted Average		ACGIH
		(TWA):		
	15 mg/m3	PEL:	Total dust.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color

: Solid : Pellets : GREY Evaporation rate:Not applicableSpecific Gravity::Not determinedBulk density:Not established



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N H	Melting point/range:Boiling Point::	No No	ery faint ot determined ot applicable soluble	Vapor pressure Vapour density pH	: :	Not applicable Not applicable Not applicable
		10	. STABILITY AND RE	CACTIVITY		
S	Stability	:	Stable.			
ł	Hazardous Polymerization	:	Will not occur.			
(Conditions to avoid	:	Keep away from oxidizi decomposition, do not o	00	me.	To avoid thermal
Ι	ncompatible Materials	:	Incompatible with stron	g acids and oxidizing a	gent	ts.
	Hazardous decomposition products	:	Carbon dioxide (CO2), (NOx), other hazardous			-

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.

<u>Toxicity Overview</u> This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
26741-53-7	2,4,8,10-Tetraoxa-3,9-diph osphaspiro[5.5]undecane, 3,9-bis[2,4-bis(1,1-dimeth ylethyl)phenoxy]-	toxic	Refer to LC50 / LD50 Data on MSDS
25973-55-1	Phenol, 2-(2H-benzotriazol-2-yl)-4 ,6-bis(1,1-dimethylpropyl)	Systemic effects	Kidney, Liver, reproductive system.
1309-37-1	Iron oxide	Systemic effects	Respiratory system.
68186-90-3	Rutile, antimony chromium buff	Irritant	Eyes, Skin, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
26741-53-7	2,4,8,10-Tetraoxa-3,9-diph	LC50	> 2 gm/m3	rat
	osphaspiro[5.5]undecane,	Oral LD50	5,580 mg/kg	rat
	3,9-bis[2,4-bis(1,1-dimeth	Dermal LD50	> 200 mg/kg	rabbit
	ylethyl)phenoxy]-			



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Additional Health Hazard Information:

Rutile, antimony chromium buff 68186-90-3 Can cause eye irritation. Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: antimony measles (a red, pimply rash).

Environmental Toxicity : Ch po Bioaccumulation Potential : Ch po	ot readily biodegradable. nemicals are not readily available as they are bound within the lymer matrix. nemicals are not readily available as they are bound within the lymer matrix.
po Bioaccumulation Potential : Ch po	lymer matrix.
ро	
Additional advice : No	5
	o data available
13. D	ISPOSAL CONSIDERATIONS
po ge cla	ke most thermoplastic plastics the product can be recycled. Where ssible recycling is preferred to disposal or incineration. The nerator of waste material has the responsibility for proper waste assification, transportation and disposal in accordance with plicable federal, state/provincial and local regulations.
ha	ecycling is preferred when possible. The generator of waste materia s the responsibility for proper waste classification, transportation d disposal in accordance with applicable federal, state/provincial d local regulations.
14. 7	TRANSPORT INFORMATION
U.S. DOT Classification : No	ot regulated for transportation.
ICAO/IATA (air) : Re	efer to specific regulation.
IMO / IMDG (maritime) : Re	efer to specific regulation.
15. R	EGULATORY INFORMATION
US Regulations:	
OSHA Status : Cl	assified as hazardous based on components.
	ll components of this product are listed on or exempt from the TSCA ventory.
US. EPA CERCLA Hazardous Substan	ces (40 CFR 302)



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Not applicable

California Proposition : This product does not contain a substance listed by California Prop 65. 65

SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
CHROMIUM III COMPOUNDSANTIMONY	68186-90-3	7.34
COMPOUNDS		

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Rutile, antimony chromium buff	68186-90-3	7.34	68
Rutile, antimony chromium buff	68186-90-3	7.34	17

WHMIS Classification : D1B

WHMIS Ingredient Disclosure List

CAS-No.	
1309-37-1	
68186-90-3	

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
Japan ENCS	:	Not determined
Korea KECI	:	Listed

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Philippines PICCS : Listed

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 when used in combination with any other materials and/or in any particular process or processing conditions.