MATERIAL SAFETY DATA SHEET FRPPC 170728

Version Number 1.0 Revision Date 10/12/2012

Product Use

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	FRPPC 170728
Product code	:	CC10170728
Chemical Name	:	Mixture
CAS-No.	:	Mixture

: Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
1,1'-(Ethane-1,2-	84852-53-9	30 - 60
diyl)bis[pentabromobenzene]		
Antimony trioxide	1309-64-4	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.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.



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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 a 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. FIREFIGHTING MEASURES
Flash point	: not applicable
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media	 not applicable not applicable not applicable 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. 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 no 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.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat



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	01	ly in areas with appropriat	e exhaust ventilation.	
Storage		eep containers dry and tigh ad contamination. Keep in		ure absorption
8.	EXPOSURE	CONTROLS/PERSONA	L PROTECTION	
Respiratory protection	: N	o personal respiratory prote	ective equipment normall	y required.
Eye/Face Protection	: Sa	afety glasses with side-shie	lds	
Hand protection	: P1	rotective gloves		
Skin and body protection	: L	ong sleeved clothing		
Additional Protective Measures	: Sa	afety shoes		
General Hygiene Considerations		andle in accordance with gractice. Wash hands before		
Engineering measures		eat only in areas with appropriate exhaust ventilation		n. Provide
Exposure limit(s)				
	Value	E-manue times	E server and and	
Components	value	Exposure time	Exposure type	List:
Components Antimony trioxide	0.5 mg/m3	Time Weighted Average (TWA):		
-	0.5 mg/m3 0.5 mg/m3	Time Weighted Average (TWA): Time Weighted Average (TWA):	as Sb as Sb	MX OEL ACGIH
-	0.5 mg/m3 0.5 mg/m3 0.5 mg/m3	Time Weighted Average (TWA): Time Weighted Average (TWA): Recommended exposure limit (REL):	as Sb as Sb as Sb	MX OEL ACGIH NIOSH
-	0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3	Time Weighted Average (TWA): Time Weighted Average (TWA): Recommended exposure limit (REL): PEL:	as Sb as Sb as Sb as Sb as Sb	MX OEL ACGIH NIOSH OSHA Z1
-	0.5 mg/m3 0.5 mg/m3 0.5 mg/m3	Time Weighted Average (TWA): Time Weighted Average (TWA): Recommended exposure limit (REL):	as Sb as Sb as Sb as Sb as Sb	MX OEL ACGIH NIOSH OSHA Z1
-	0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3	Time Weighted Average (TWA): Time Weighted Average (TWA): Recommended exposure limit (REL): PEL: Time Weighted Average	as Sb as Sb as Sb as Sb as Sb as Sb	MX OEL ACGIH NIOSH OSHA Z1
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Antimony trioxide	0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 9. PHYSIC : solid : pellet : NO F : very	Time Weighted Average (TWA): Time Weighted Average (TWA): Recommended exposure limit (REL): PEL: Time Weighted Average (TWA): CAL AND CHEMICAL P Eva Eva ts Spe PIGMENT Bul faint Vap	as Sb as Sb as Sb as Sb as Sb as Sb as Sb ROPERTIES poration rate : N cific Gravity : N k density : N pour pressure : no	MX OEL ACGIH NIOSH OSHA Z1 OSHA Z12 OSHA Z12 ot applicable ot determined ot established ot applicable
Antimony trioxide Antimony trioxide Form Appearance Colour Odour Melting point/range	0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 9. PHYSIC : solid : pellet : NO F : very : Not c	Time Weighted Average (TWA): Time Weighted Average (TWA): Recommended exposure limit (REL): PEL: Time Weighted Average (TWA): CAL AND CHEMICAL P Eva Eva Spe IGMENT Bul faint Vap letermined Vap	as Sb as Sb	MX OEL ACGIH NIOSH OSHA Z1 OSHA Z1 OSHA Z12 ot applicable ot determined ot established ot applicable ot applicable ot applicable
Antimony trioxide	0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 9. PHYSIC : solid : pellet : NO F : very : Not c	Time Weighted Average (TWA): Time Weighted Average (TWA): Recommended exposure limit (REL): PEL: Time Weighted Average (TWA): CAL AND CHEMICAL P EVA Spe IGMENT Bul faint Vap letermined Vap pplicable pH	as Sb as Sb	MX OEL ACGIH NIOSH OSHA Z1 OSHA Z12 OSHA Z12 ot applicable ot determined ot established ot applicable



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Stability	:	The product is stable if stored and handled as prescribed.
Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents.
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.	Chemical Name	Effect	Target Organ
84852-53-9	1,1'-(Ethane-1,2- diyl)bis[pentabromobenze ne]	Chronic effects	Skin, Respiratory system.
1309-64-4	Antimony trioxide	Systemic effects	Eyes, Respiratory system.
		sensitizer	Skin.

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
84852-53-9	1,1'-(Ethane-1,2-	Oral LD 50	> 5,000 mg/kg	Rat
	diyl)bis[pentabromobenze	Dermal LD 50	> 2,000 mg/kg	rabbit
	ne]			
1309-64-4	Antimony trioxide	Oral LD50	> 34,600 mg/kg	rat

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
1309-64-4 Antimony trioxide		no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

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2 - The component is reasonably anticipated to be a human carcinogen.

Additional Health Hazard Information:

Antimony trioxide 1309-64-4 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).

12. ECOLOGICAL INFORMATION						
Persistence and degradability : Not readily biodegradable.						
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.					
Additional advice	: no data available					
	13. DISPOSAL CONSIDERATIONS					
Product	: 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.					
Contaminated packaging	: 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. TRANSPORT INFORMATION					
U.S. DOT Classification	: Not regulated for transportation.					
ICAO/IATA	: 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 TSCA Inventory.					
US. EPA CERCLA Hazardous	Substances (40 CFR 302)					
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not applicable

California Proposition : WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight percent
ANTIMONY COMPOUNDS	1309-64-4	10.00 - 30.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)			
Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Antimony trioxide	1309-64-4	10.00 - 30.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
1309-64-4	

DSL

DSL status has not been determined. Quantity use in Canada may be restricted by regulations.

National Inventories:

Australia AICS	:	Not determined
China IECS	:	Listed
Europe EINECS	:	Listed
Japan ENCS	:	Not determined

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Korea KECI : Listed

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 used in combination with any other materials or in any process, unless specified in the text.