*PolyOne* 

## MATERIAL SAFETY DATA SHEET FRPE 133952

Version Number 1.1 Revision Date 03/13/2014

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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	:	FRPE 133952
Product code	:	CC10133952
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	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]		
Talc	14807-96-6	0.1 - 1
Antimony trioxide	1309-64-4	5 - 10
Quartz	14808-60-7	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 seek medical attention.
	5. FIREFIGHTING MEASURES
Flash point	: not applicable
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures	<ul> <li>not applicable</li> <li>not applicable</li> <li>not applicable</li> <li>carbon dioxide blanket, Water spray, Dry powder, Foam.</li> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne</li> </ul>
Unusual Fire/Explosion Hazards	<ul> <li>contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	: Wear appropriate personal protection during cleanup, such as
r ersonar precadions	impervious gloves, boots and coveralls.
Environmental precautions	<ul><li>impervious gloves, boots and coveralls.</li><li>Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.</li></ul>

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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. EX	POSU	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.

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Components	Value	Exposure time	Exposure type	List:
Antimony trioxide	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	MX OEL
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m3	Recommended exposure limit (REL):	as Sb	NIOSH
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	OSHA Z1A
Quartz	0.025 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	0.05 mg/m3	Recommended exposure limit (REL):	Respirable dust.	NIOSH
	0.1 mg/m3	Time Weighted Average (TWA):	Respirable dust.	OSHA Z1A
	0.1 mg/m3	Time Weighted Average (TWA):	Respirable.	Z3
	0.3 mg/m3	Time Weighted Average (TWA):	Total dust.	Z3
	0.1 mg/m3	Time Weighted Average (TWA):		MX OEL
Talc	2 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	2 mg/m3	Recommended exposure limit (REL):	Respirable.	NIOSH
	2 mg/m3	Time Weighted Average (TWA):	Respirable dust.	OSHA Z1A
	0.1 mg/m3	Time Weighted Average (TWA):	Respirable.	Z3
	0.3 mg/m3	Time Weighted Average (TWA):	Total dust.	Z3

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility solid
pellets
NO PIGMENT
very faint
Not determined
not applicable
insoluble

Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density pH Not applicable
Not determined
Not established
not applicable
not applicable

: not applicable

#### **10. STABILITY AND REACTIVITY**

Stability

: The product is stable if stored and handled as prescribed.

Hazardous Polymerization

: Will not occur.



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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.
14807-96-6	Talc	Systemic effects	Eyes, Respiratory system, Skin.
1309-64-4	Antimony trioxide	Systemic effects	Eyes, Respiratory system.
		sensitizer	Skin.
14808-60-7	Quartz	Systemic effects	Eyes, 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
84852-53-9	1,1'-(Ethane-1,2- diyl)bis[pentabromobenze ne]		> 5,000 mg/kg > 2,000 mg/kg	Rat rabbit
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
14807-96-6	Talc	no	2B	no
1309-64-4	Antimony trioxide	no	2B	no
14808-60-7	Quartz	no	1	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:

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

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).

#### Additional Health Hazard Information:

Quartz 14808-60-7 This material in its free releasable form may cause respiratory tract irritation. Long-term exposure may cause coughing, chest pain, diminished chest expansion and possibly silicosis, which is a scarring of the lungs.

	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:	

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OSHA Status	: Classified as ha	azardous based on o	component	s.	
TSCA Status	: All component TSCA Inventor	ts of this product any.	re listed on	or exem	pt from the
US. EPA CERCLA Hazardous S	Substances (40 CFR	302)			
not applicable					
California Proposition 65	: WARNING! T California to ca	This product contain use cancer.	ns a chemic	cal know	on to the State of
SARA Title III Section 302 Extr	remely Hazardous Su	ubstance			
Unless specific chemicals are id-	entified under this se	ection, this product	t is Not Apj	plicable	under this regulat
SADA Title III Section 212 Toy	in Chamicala:				
SARA Title III Section 313 Tox Unless specific chemicals are id Chemical Name ANTIMONY COMPOUNDS	entified under this se	ection, this product CAS-N 1309-64	No.	plicable Weight 5.00 - 1	percent
Unless specific chemicals are id Chemical Name ANTIMONY COMPOUNDS Canadian Regulations:	lentified under this se	CAS-N	No.	Weight	percent
Unless specific chemicals are id Chemical Name ANTIMONY COMPOUNDS	lentified under this se	CAS-N	No. 4-4 Weight	Weight 5.00 - 1	percent
Unless specific chemicals are id Chemical Name ANTIMONY COMPOUNDS Canadian Regulations: National Pollutant Releas	lentified under this se	CAS-N 1309-64	No. 4-4	Weight 5.00 - 1	percent 10.00
Unless specific chemicals are id Chemical Name ANTIMONY COMPOUNDS Canadian Regulations: National Pollutant Releas Chemical Name Antimony trioxide WHMIS Classification WHMIS Ingredient Discl CAS-No. 1309-64-4 14808-60-7	se Inventory (NPRI) : D2A losure List	CAS-N 1309-64 CAS-No. 1309-64-4	Vo. 4-4 Weight percent 5.00 - 1	Weight 5.00 - 1	percent 10.00
Unless specific chemicals are id Chemical Name ANTIMONY COMPOUNDS Canadian Regulations: National Pollutant Releas Chemical Name Antimony trioxide WHMIS Classification WHMIS Ingredient Discl CAS-No. 1309-64-4 14808-60-7 DSL	se Inventory (NPRI) : D2A losure List	CAS-N 1309-64 CAS-No. 1309-64-4	Vo. 4-4 Weight percent 5.00 - 1	Weight 5.00 - 1	percent 10.00
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Philippines PICCS	:	Listed
Korea KECI	:	Listed
Japan ENCS	·	Not determined
Japan ENCS	:	Not determined
Europe EINECS	:	Listed
China IECS	:	Listed
Tustiunu Theos	•	
Australia AICS	:	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.