PolyOne

MATERIAL SAFETY DATA SHEET FRTPU 145050

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1.	PROD	UCT AND COMPANY IDENTIFICATION
POLYONE CORPORAT 33587 Walker Road, Avo		OH 44012
Telephone	:	1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	FRTPU 145050

1 i o d d o o i nume	•	111110110000
Product code	:	CC10145050
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Antimony trioxide	1309-64-4	10 - 30
Decabromodiphenyl oxide	1163-19-5	30 - 60

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.
Chronic exposure	: Refer to Section 11 for Toxicological Information.

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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 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 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 Unusual Fire/Explosion Hazards	::	not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A(CCIDENTAL 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.
		7. HANDLING AND STORAGE
Handling	:	Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

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Storage

: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	: No personal respiratory protective equipment normally req	luired.
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 saf practice. Wash hands before breaks and at the end of work	•
Engineering measures	: Heat only in areas with appropriate exhaust ventilation. Pr appropriate exhaust ventilation at machinery.	rovide

Exposure limit(s)

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

Melting point/range: Not determinedVapour density: not applicableBoiling Point:: not applicablepH: not applicableWater solubility: insoluble: insoluble

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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
1309-64-4	Antimony trioxide	Systemic effects	Eyes, Respiratory system.
		sensitizer	Skin.
1163-19-5	Decabromodiphenyl oxide	Systemic effects	Liver, Kidney.

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
1309-64-4	Antimony trioxide	Oral LD50	> 34,600 mg/kg	rat
1163-19-5	Decabromodiphenyl oxide	Oral LD50	> 5 gm/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.

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

Additional Health Hazard Information:

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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:

Decabromodiphenyl oxide 1163-19-5 A halogenated aromatic with some potential for hazardous exposure via inhalation or ingestion. Acute toxicity is low - oral LD50 in rats >50 mg/L. Studies on rats at high feeding levels indicate some potential for liver and kidney effects from chronic overexposure as well as thyroid toxicity.

	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

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	TSCA Inventor	v.					
US. EPA CERCLA Hazardous Sub	ostances (40 CFR 2	302)					
not applicable							
California Proposition : 65	WARNING! T California to car			a chemi	cal know	vn to the S	tate of
SARA Title III Section 302 Extrem	nely Hazardous Su	Ibstance					
	-		n nroduot i	Not An	nliachla	under this	rogulatic
Unless specific chemicals are ident	inted under this se	cuon, mi	s product 1	s not Ap	рисавие	under this	regulatio
SARA Title III Section 313 Toxic (Unless specific chemicals are ident		ction, this			*		regulatic
Chemical Name ANTIMONY COMPOUNDS			CAS-No			percent 20.00	
DECABROMODIPHENYL			1309-64-		10.00 - 30.00 - 30.00		
DECABROMODIPHENYL1163-19-530.00 - 60.00OXIDEDECABROMODIPHENYL OXIDE							
Canadian Regulations:							
Canadian Regulations: National Pollutant Release I Chemical Name	nventory (NPRI)	CAS-N	0.	Weight		NPRI ID	#
National Pollutant Release I Chemical Name	nventory (NPRI)			percent	t	NPRI ID	#
National Pollutant Release I Chemical Name Antimony trioxide	nventory (NPRI)	1309-6	4-4	percent 10.00 -	t 30.00	NPRI ID	#
National Pollutant Release I Chemical Name	nventory (NPRI)		4-4	percent	t 30.00	NPRI ID	#
National Pollutant Release I Chemical Name Antimony trioxide	D2A	1309-6	4-4	percent 10.00 -	t 30.00	NPRI ID	#
National Pollutant Release I Chemical Name Antimony trioxide Decabromodiphenyl oxide WHMIS Classification : WHMIS Ingredient Disclose	D2A	1309-6	4-4	percent 10.00 -	t 30.00	NPRI ID	#
National Pollutant Release I Chemical Name Antimony trioxide Decabromodiphenyl oxide WHMIS Classification :	D2A	1309-6	4-4	percent 10.00 -	t 30.00	NPRI ID	#
National Pollutant Release I Chemical Name Antimony trioxide Decabromodiphenyl oxide WHMIS Classification : WHMIS Ingredient Disclose CAS-No.	D2A	1309-6 1163-1	4-4 9-5	on the C	30.00 60.00		#
National Pollutant Release I Chemical Name Antimony trioxide Decabromodiphenyl oxide WHMIS Classification : WHMIS Ingredient Disclose CAS-No. 1309-64-4	D2A ure List All component:	1309-6 1163-1	4-4 9-5	on the C	30.00 60.00		#
National Pollutant Release I Chemical Name Antimony trioxide Decabromodiphenyl oxide WHMIS Classification : WHMIS Ingredient Disclose CAS-No. 1309-64-4 DSL :	D2A ure List All components Substances List	1309-6 1163-1	4-4 9-5	on the C	30.00 60.00		#
National Pollutant Release I Chemical Name Antimony trioxide Decabromodiphenyl oxide WHMIS Classification WHMIS Ingredient Disclosu CAS-No. 1309-64-4 DSL : National Inventories:	D2A ure List All component: Substances List	1309-6 1163-1	4-4 9-5	on the C	30.00 60.00		#

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China IECS	:	Listed
Europe EINECS	:	Listed
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.