PolyOne

## MATERIAL SAFETY DATA SHEET FR CONC 2-GF PP

Version Number 1.2 Revision Date 03/12/2014

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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	:	FR CONC 2-GF PP			
Product code	:	EM10011767			
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	5 - 10
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

: Inhalation, Ingestion, Eyes, Skin contact	
: Resin particles, like other inert materials, can be mechanically irritating.	
: May be harmful if swallowed.	
: Resin particles, like other inert materials, are mechanically irritating to eyes.	
: Avoid skin contact. Product contains unreacted organic peroxides which may cause mild skin irritation.	

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Medical Conditions	: Individuals with chronic respiratory disorders (i.e. asthma, chronic		
Aggravated by Exposure: Individuals with chronic respiratory disorders (i.e. astima, chronic respiratory dis			
	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	: not applicable		
Lower explosion limit	: not applicable		
Auto-ignition temperature	: Not relevant		
Suitable extinguishing media	: Carbon dioxide blanket, Water spray, Dry powder, Foam.		
Special Fire Fighting	: 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.		
	7. HANDLING AND STORAGE		



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Handling	: Take measures to prevent the build up of electrostatic charge. He only in areas with appropriate exhaust ventilation.	at
Storage	: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place. Keep away from h Excessive storage temperature and humidity can degrade product performance. Store below 149 °F (65 °C). Rotate stock. Product shelf life is normally 1 year maximum.	eat.
8. EXI	OSURE CONTROLS/PERSONAL PROTECTION	
Respiratory protection	: No personal respiratory protective equipment normally required w handling the product itself. See "Engineering Measures" section below for precautions to be taken when heating or processing this material.	
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. During processing and cross-linking, product can give off by-products su as alcohols, acetophenone, alpha-methylstyrene, acetone, methane and ethane. By-product vapors may be flammable. User must provinecessary precautions such as adequate ventilation to prevent accumulation and ignition of vapors. Adequate ventilation and/or appropriate respiratory protection may also be necessary to minimemployee exposure to processing vapors.	e, vide
Exposure limit(s)		
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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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility	: solidEvapouration rate: Not applicable: pelletsSpecific Gravity: Not determined: BLACKBulk density: Not established: characteristicVapour pressure: not applicable: Not determinedVapour density: not applicable: not applicablepH: not applicable: insoluble::
	10. STABILITY AND REACTIVITY
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	: Strong acids, Oxidizing agents, Reducing agents
Hazardous decomposition products	: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. Traces of alcohols, acetophenone, alpha-methylstyrene, acetone, methane, ethane, or other byproducts may be liberated during processing or decomposition.

## **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.

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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:

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	: not applicable
	13. DISPOSAL CONSIDERATIONS

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Product	:	The generator of waste waste classification, tran applicable federal, state	nsportation and d	isposal in accordance with	
Contaminated packaging	:	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.			
	1	4. TRANSPORT INFO	RMATION		
U.S. DOT Classification	:	Not regulated for transportation.			
ICAO/IATA	:	Refer to specific regulation.			
IMO/IMDG (maritime)	:	Refer to specific regulation.			
	15	5. REGULATORY INFO	ORMATION		
US Regulations:					
OSHA Status	:	Classified as hazardous based on components.			
TSCA Status	:	All components of this TSCA Inventory.	product are listed	d on or exempt from the	
US. EPA CERCLA Hazardov	s Sub	stances (40 CFR 302)			
not applicable					
California Proposition 65	:	WARNING! This prod California to cause canc		emical known to the State of	
SARA Title III Section 302 E	xtrem	ely Hazardous Substance			
Unless specific chemicals are	identi	fied under this section, th	is product is Not	Applicable under this regulation	
SARA Title III Section 313 T	oxic (	Chemicals:			
Unless specific chemicals are	identi	fied under this section, th	is product is Not	Applicable under this regulation	
Chemical Name		,	CAS-No.	Weight percent	
ANTIMONY COMPOUNI			1309-64-4	5.00 - 10.00	
DECABROMODIPHENY			1163-19-5	30.00 - 60.00	
OXIDEDECABROMODIPHENYL OXIDE			1000.07.5	<b>5</b> .00 10.00	
ZINC COMPOUNDSZINC	CON	APOUNDS	1332-07-6	5.00 - 10.00	

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Canadian Regulations:

National Pollutant Release Inventory (NPRI)			
Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Antimony trioxide	1309-64-4	5.00 - 10.00	
Decabromodiphenyl oxide	1163-19-5	30.00 - 60.00	
Zinc borate	1332-07-6	5.00 - 10.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
1309-64-4	

:

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
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.