

MATERIAL SAFETY DATA SHEET

HDPE FR 42 LM

Version Number 1.0 Revision Date 12/22/2001 Page 1 of 6 Print Date 11/2/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (440)-930-1395
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	HDPE FR 42 LM
Product code	:	EM00E08041
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Decabromodiphenyl oxide	1163-19-5	10 - 30
Kaolin	1332-58-7	5 - 10
Antimony trioxide	1309-64-4	10 - 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some fumes may be released upon heating or crosslinking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure. See Sections 3 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion	Resin particles, like other inert materials, can be mechanically irritating.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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Storage		Keep containers dry and tightly nd contamination. Keep in a d		e absorption	
8.1	EXPOSURE	CONTROLS / PERSONAL	PROTECTION		
Respiratory protection	: N	No personal respiratory protecti	ve equipment normally	required.	
Eye/Face Protection	: S	: Safety glasses with side-shields.			
Hand protection	: P	Protective gloves.			
Skin and body protection	: L	Long sleeved clothing.			
Additional Protective Measures	: S	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:	
Antimony trioxide	0.5 mg/m3	PEL:	as Sb	OSHA Z1	
Vaclin	2 2	Time Weishted Assesses	Deeninghle deet	ACCIII	

Antimony movine	0.5 mg/m_{3}	ILL.	as 50	OSHA ZI
Kaolin	2 mg/m3	Time Weighted Average	Respirable dust.	ACGIH
		(TWA):		
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1

9	9. PHYSICAL AND CHE	MICAL PROPERTIES	
Form Appearance Color Odor Melting point/range Boiling Point: Water solubility	 Solid Pellets, slabs NO PIGMENT Very faint Not determined Not applicable Insoluble 	Evaporation rate Specific Gravity Bulk density Vapor pressure Vapor density pH	 Not applicable. Not determined Not established Not applicable Not applicable Not applicable
	10. STABILITY AN	ND REACTIVITY	
Stability	: Stable.		
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from	oxidizing agents and open fl	lame. To avoid thermal



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		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
1332-58-7	Kaolin	Systemic effects	Respiratory system, digestive
			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
1163-19-5	Decabromodiphenyl oxide	Oral LD50	> 5 gm/kg	rat
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.

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

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. Animal studies at high feeding levels indicate some potential for liver effects form chronic overexposure.

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).

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Chemicals are not readily available as they are bound within the matr of the polymer.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the matr of the polymer.
Additional advice	: Not applicable
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastics the product can be recycled. Where possib 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 mater 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. D.O.T. / CA T.D.G. Classification (Non-bulk ground)	: Not regulated for transportation.
ICAO/IATA	: Not regulated for transportation.
IMO / IMDG	: Not regulated for transportation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on the TSCA inventory or a exempt.
US. EPA CERCLA Hazardous	Substances (40 CFR 302)



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	AS-No. 309-64-4	RQ for Mi 10,000 LB	xture/Product	
California Proposition 65	: WARNING! Thi California to caus	-	a chemical known in the State	e of
SARA Title III Section 313 To	oxic Chemicals:			
Chemical Nam	<u>د</u>	CAS-No.	Weight %	
ANTIMONY C		1309-64-4	10.00	
	DIPHENYL OXIDE	1163-19-5	22.00	
WHMIS Ingredient Dis CAS-No. 1309-64-4 DSL	closure List			
National Inventories:				
Australia AICS	: Listed.			
China IECS	: Listed.			
Europe EINECS	: Not determined.			
Japan ENCS	: Listed.			
Korea KECI	: Listed.			
Philippines PICCS	: Listed.			

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.