

MATERIAL SAFETY DATA SHEET

V0068G Natural

Version Number 1.0 Revision Date 08/27/2003

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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	:	V0068G Natural
Product code	:	Y0068G0A0000
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	30 - 60
Arsenic	7440-38-2	0.1 - 1
Lead	7439-92-1	0.1 - 1
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 vapors may be released upon heating or processing. The end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact	
Acute exposure		
Inhalation Ingestion Eyes	 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. 	
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 or 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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting	 Not applicable Not applicable Not relevant water, dry powder, foam, carbon dioxide (CO2). Fullface self-contained breathing apparatus (SCBA) used in positive
Procedures Unusual Fire/Explosion Hazards	pressure mode should be worn to prevent inhalation of airborne contaminants.None
	5. 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. Refer to Section 1 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat



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Storage

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only in areas with appropriate exhaust ventilation.: 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 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.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Antimony trioxide	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
Arsenic	0.01 mg/m3	Time Weighted Average (TWA):	as As	OSHA
	0.01 mg/m3	Time Weighted Average (TWA):	as As	ACGIH
Lead	0.05 mg/m3	Time Weighted Average (TWA):	Total dust. as Pb	ACGIH
	0.05 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA
	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color Odor Melting point/range Boiling Point: Solid
Pellets, slabs
NO PIGMENT
Very faint
Not determined
Not applicable

Evaporation rate Specific Gravity Bulk density Vapor pressure Vapor density pH Not applicable.
Not determined
Not established
Not applicable
Not applicable
Not applicable



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Water solubility	: Insoluble
	10. STABILITY AND REACTIVITY
Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible Materials	: Strong acids, oxidizing and reducing 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
1163-19-5	Decabromodiphenyl oxide	Systemic effects	Liver, Kidney.
7440-38-2	Arsenic	Systemic effects	Skin, Respiratory system,
			Liver, Kidney, heart or
			circulatory system.
7439-92-1	Lead	Systemic effects	blood and blood forming system, Kidney, central nervous system, reproductive 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
7440-38-2	Arsenic	Oral LD50	763 mg/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
7440-38-2	Arsenic	yes	1	1
7439-92-1	Lead	no	2B	no



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1309-64-4 Antime	ony trioxide	no	2B	no
IARC Carcinogen Classificatio	ns.			
1 - The component is carcinoge				
2A - The component is probabl		umans		
2B - The component is possibly				
NTP Carcinogen Classification	s:			
1 - The component is known to	be a human carcino	ogen.		
2 - The component is reasonable	ly anticipated to be	a human carcinogen.		
Additional Haalth Harand In	£			
Additional Health Hazard Int Decabromodiphenyl oxide		anatad anomatia with	n como notontial f	or hogordoug
exposure via inhalation or in				
at high feeding levels indicate				
at high feeding levels mulcate	some potential for	r nver enects form ci	frome overexpost	ne.
Additional Health Heard T	formation			
Additional Health Hazard Int		annagiva ta al-i A	1to offecte and J	to comore
Arsenic 7440-38-2 Trivalen				
inflammation of mucous men		ne enects include pe	ripneral neuritis,	perforation for
nasal septum and mild trache	copronchitis.			
	o			
Additional Health Hazard Int				
Lead 7439-92-1 Systemic ef	ffects include neur	otoxic, teratogenic, f	etotoxic and repro	oductive with
abdominal pain, anemia, pall	on deeneed hand		1 4 1 4 11	
	or, decreased nand	l grip strength with (characteristic "wi	rist arop [~] .
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Additional Health Hazard In	formation:			-
Additional Health Hazard In Antimony trioxide 1309-64-	<u>formation:</u> 4 Can cause eye in	rritation. Can cause	skin irritation. S	ymptoms may
Additional Health Hazard In Antimony trioxide 1309-64- include redness and burning	<u>formation:</u> 4 Can cause eye in of skin, and other s	rritation. Can cause skin damage. Additi	skin irritation. S	ymptoms may
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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	: 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 or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for
				Mixture/Product
Arsenic	7440-38-2	0.6812	001 lbs	147 LB

California Proposition : WARNING! This product contains a chemical known to the State of 65 California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ANTIMONY COMPOUNDS	1309-64-4	26.97
ARSENIC	7440-38-2	0.68
DECABROMODIPHENYL OXIDE	1163-19-5	46.50
LEAD	7439-92-1	0.68

Canadian Regulations:

PolyOne.

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Chemical Name		CAS-No.	Weight %	NPRI ID#
Antimony trioxide		1309-64-4	26.97	17
Arsenic		7440-38-2	0.68	244
Decabromodiphenyl oxide		1163-19-5	46.50	78
Lead		7439-92-1	0.68	246
WHMIS Classification WHMIS Ingredient Disc CAS-No. 1309-64-4 7440-38-2				
7439-92-1				
7439-92-1 DSL		ts of this product are of tt (DSL) or are exempt.		Domestic
				Domestic
DSL				Domestic
DSL tional Inventories:	Substances Lis			Domestic
DSL ational Inventories: Australia AICS	Substances Lis	t (DSL) or are exempt.		Domestic
DSL ational Inventories: Australia AICS China IECS	Substances Lis : Listed. : Listed.	t (DSL) or are exempt.		Domestic
DSL ational Inventories: Australia AICS China IECS Europe EINECS	Substances Lis : Listed. : Listed. : Not determined	d.		Domestic

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 when used in combination with any other materials and/or in any particular process or processing conditions.