

MATERIAL SAFETY DATA SHEET

100% REPROCESSED RECYCLE VINYL

Version Number 1.0
Revision Date 02/03/2003

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Print Date 11/10/2011

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 : 100% REPROCESSED RECYCLE VINYL
Product code : VC10001190
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Quartz	14808-60-7	1 - 5
Lead stearate, basic	12578-12-0	1 - 5
Antimony trioxide	1309-64-4	5 - 10
C.I. Pigment Brown 39	71750-83-9	5 - 10
C.I. Pigment Yellow 53	8007-18-9	5 - 10
Carbon black	1333-86-4	5 - 10
Lead oxide sulfate (Pb4O3(SO4))	12202-17-4	5 - 10
Rutile, antimony chromium buff	68186-90-3	5 - 10
Stoddard solvent	8052-41-3	5 - 10
Titanium dioxide	13463-67-7	10 - 30
Calcium carbonate	1317-65-3	30 - 60
Di(2-ethylhexyl)phthalate	117-81-7	60 - 100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. See Sections 3 and 11 for additional details. This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). OSHA considers VCM a suspect carcinogen and regulates it under 29 CFR 1910.1017. It is unlikely, under normal working conditions with adequate ventilation, that the OSHA action level and the OSHA exposure limits will be exceeded for residual VCM. However, the user should take the necessary precautions (e.g. mechanical ventilation, local exhaust ventilation, air-monitoring, respiratory protection, etc.) to ensure airborne levels of any vapors including VCM or dusts that may be released during heating or processing are below regulated levels.

POTENTIAL HEALTH EFFECTS

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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.

Medical Conditions : None known.

Aggravated by Exposure:

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. FIRE-FIGHTING MEASURES

Flash point : Not applicable

Flammable Limits
Upper explosion limit : Not applicable
Lower explosion limit : Not applicable
Autoignition temperature : Not applicable.
Suitable extinguishing media : water, dry powder, foam, carbon dioxide (CO₂).

Special Fire Fighting Procedures : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

Unusual Fire/Explosion Hazards : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as

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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 13 of this MSDS for proper disposal methods.

7. HANDLING AND STORAGE

Handling : Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.

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 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)

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Components	Value	Exposure time	Exposure type	List:
Antimony trioxide	0.5 mg/m ³	PEL:	as Sb	OSHA Z1
C.I. Pigment Brown 39	5 mg/m ³	Ceiling Limit Value:	as Mn	OSHA Z1
C.I. Pigment Brown 39	0.5 mg/m ³	Time Weighted Average (TWA):	as Cr	ACGIH
C.I. Pigment Brown 39	0.2 mg/m ³	Time Weighted Average (TWA):	as Mn	ACGIH
C.I. Pigment Yellow 53	1 mg/m ³	PEL:	as Ni	OSHA Z1
C.I. Pigment Yellow 53	0.5 mg/m ³	PEL:	as Sb	OSHA Z1
C.I. Pigment Yellow 53	0.2 mg/m ³	Time Weighted Average (TWA):	as Ni	ACGIH
C.I. Pigment Yellow 53	0.5 mg/m ³	Time Weighted Average (TWA):	as Sb	ACGIH
Calcium carbonate	10 mg/m ³	Time Weighted Average (TWA):	Total dust.	ACGIH
Calcium carbonate	5 mg/m ³	PEL:	Respirable dust.	OSHA Z1
	15 mg/m ³	PEL:	Total dust.	OSHA Z1
Carbon black	3.5 mg/m ³	Time Weighted Average (TWA):	Total dust. as carbon black	ACGIH
Carbon black	3.5 mg/m ³	PEL:	Total dust. as carbon black	OSHA Z1
Di(2-ethylhexyl)phthalate	5 mg/m ³	Time Weighted Average (TWA):	Vapor.	ACGIH
Di(2-ethylhexyl)phthalate	5 mg/m ³	PEL:	Vapor.	OSHA Z1
Di(2-ethylhexyl)phthalate	5 mg/m ³	Time Weighted Average (TWA):	Vapor.	MX OEL
	10 mg/m ³	Short Term Exposure Limit (STEL):	Vapor.	MX OEL
Lead oxide sulfate (Pb ₄ O ₃ (SO ₄))	0.05 mg/m ³	Time Weighted Average (TWA):	as Pb	OSHA
	0.03 mg/m ³	OSHA Action level:	as Pb	OSHA
	0.05 mg/m ³	Time Weighted Average (TWA):		ACGIH
Quartz	0.05 mg/m ³	Time Weighted Average (TWA):	Respirable dust.	ACGIH
Quartz	0.1 mg/m ³	PEL:	Respirable dust.	OSHA
	0.3 mg/m ³	PEL:	Total dust.	OSHA
Rutile, antimony chromium buff	0.5 mg/m ³	PEL:	Total dust. as Cr	OSHA Z1
Rutile, antimony chromium buff	1 mg/m ³	PEL:	as Cr	OSHA Z1
Rutile, antimony chromium buff	0.5 mg/m ³	PEL:	as Sb	OSHA Z1
Rutile, antimony chromium buff	0.5 mg/m ³	Time Weighted Average (TWA):	as Cr	ACGIH

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Stoddard solvent	100 ppm 525 mg/m ³	Time Weighted Average (TWA):	Vapor and mist.	ACGIH
Stoddard solvent	500 ppm 2,900 mg/m ³	PEL:	Vapor and mist.	OSHA Z1
Titanium dioxide	10 mg/m ³	Time Weighted Average (TWA):	Dust.	ACGIH
Titanium dioxide	15 mg/m ³	PEL:	Total dust.	OSHA Z1
Lead stearate, basic	0.05 mg/m ³	Time Weighted Average (TWA):	as Pb	OSHA

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable.
Appearance	: Pellets, powder	Specific Gravity	: Not determined
Color	: BLACK	Bulk density	: Not established
Odor	: Very faint	Vapor pressure	: Not applicable
Melting point/range	: Not determined	Vapor density	: Not applicable
Boiling Point:	: Not applicable	pH	: Not applicable
Water solubility	: Insoluble		

10. STABILITY AND REACTIVITY

Stability	: Stable.
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. Avoid contact with acetal homopolymers and acetal copolymers during processing.
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible. Prolonged heating (approximately 30 minutes or more) above 392 °F (200 °C) or short term heating at 482 °F (250 °C) may result in product decomposition and evolution of carbon monoxide and hydrogen chloride.

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
14808-60-7	Quartz	Systemic effects	Eyes, Respiratory system.

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12578-12-0	Lead stearate, basic	Systemic effects	central nervous system, reproductive system.
1309-64-4	Antimony trioxide	Systemic effects	Eyes, Respiratory system.
		sensitizer	Skin.
71750-83-9	C.I. Pigment Brown 39	Irritant	Eyes, Skin.
8007-18-9	C.I. Pigment Yellow 53	Irritant	Eyes, Skin.
		sensitizer	Skin.
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
12202-17-4	Lead oxide sulfate (Pb4O3(SO4))	Systemic effects	reproductive system, central nervous system.
68186-90-3	Rutile, antimony chromium buff	Irritant	Eyes, Skin, Respiratory system.
8052-41-3	Stoddard solvent	Systemic effects	Eyes, Skin, Respiratory system, Kidney, central nervous system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.
117-81-7	Di(2-ethylhexyl)phthalate	Systemic effects	Eyes, Respiratory system, Liver, central nervous system, Skin, digestive 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
1309-64-4	Antimony trioxide	Oral LD50	> 34,600 mg/kg	rat
1333-86-4	Carbon black	Oral LD50	> 15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit
117-81-7	Di(2-ethylhexyl)phthalate	Oral LD50	30 gm/kg	rat
		Dermal LD50	25 gm/kg	rabbit

Carcinogenicity:

This product contains the following components which in their pure form have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
14808-60-7	Quartz	no	1	1
12578-12-0	Lead stearate, basic	yes	no	no
1309-64-4	Antimony trioxide	no	2B	no
8007-18-9	C.I. Pigment Yellow 53	no	1	2
1333-86-4	Carbon black	no	2B	no
12202-17-4	Lead oxide sulfate (Pb4O3(SO4))	no	2B	no
117-81-7	Di(2-ethylhexyl)phthalate	no	no	2

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.

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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:

Quartz 14808-60-7 This material in its free releasable form may cause respiratory tract irritation, and possibly silicosis which is a scarring of the lungs.

Additional Health Hazard Information:

Lead stearate, basic 12578-12-0 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

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:

C.I. Pigment Yellow 53 8007-18-9 Skin sensitizer "nickel itch", with pulmonary, brain, liver, kidney and muscle effects.

Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

Additional Health Hazard Information:

Lead oxide sulfate (Pb4O3(SO4)) 12202-17-4 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

Additional Health Hazard Information:

Rutile, antimony chromium buff 68186-90-3 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:

Di(2-ethylhexyl)phthalate 117-81-7 There is sufficient evidence for the carcinogenicity of di (2-ethylhexyl) phthalate in experimental animals. Administered in the feed this chemical caused an increase incidence of liver cancer in male and female rats and mice. The relevance of this finding to humans is uncertain.

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12. ECOLOGICAL INFORMATION

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Adverse ecological impact is not known or expected under normal use.
- Bioaccumulation Potential : No data available.
- Additional advice : Not applicable

13. DISPOSAL CONSIDERATIONS

- Product : Like most thermoplastics 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 : 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
Di(2-ethylhexyl)phthalate	117-81-7	60.0000	100 lbs	167 LB

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California Proposition 65 : WARNING! This product contains a chemical known to the State of 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 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ANTIMONY COMPOUNDS	1309-64-4	05.00
NICKEL COMPOUNDS	8007-18-9	05.00
ANTIMONY COMPOUNDS		
CHROMIUM III COMPOUNDS	68186-90-3	05.00
ANTIMONY COMPOUNDS		
CHROMIUM III COMPOUNDS	71750-83-9	05.00
MANGANESE COMPOUNDS		
ZINC COMPOUNDS		
DI(2-ETHYLHEXYL)PHTHALATE (DEHP)	117-81-7	60.00
LEAD COMPOUNDS, INORGANIC	12202-17-4	05.00
LEAD COMPOUNDS		

Canadian Regulations:

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1309-64-4
71750-83-9
8007-18-9
1333-86-4
117-81-7
12202-17-4
14808-60-7
68186-90-3
8052-41-3

DSL : All of the components of this product are listed on the Canadian Inventories or are exempt. However, at least one component of this product is on the Canadian Non-Domestic Substances List (NDSL). Quantity use in Canada is restricted by regulations.

National Inventories:

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Australia AICS	:	Listed.
China IECS	:	Not determined.
Europe EINECS	:	Not determined.
Japan ENCS	:	Not determined.
Korea KECI	:	Not determined.
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.