

## MATERIAL SAFETY DATA SHEET

**019GN118 -35539 VERSION - B**

Version Number 1.0  
Revision Date 02/04/2002

Page 1 of 8  
Print Date 11/3/2011

<b>1. PRODUCT AND COMPANY IDENTIFICATION</b>
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**POLYONE CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE : Product Stewardship (770) 271-5902

Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : 019GN118 -35539 VERSION - B

Product code : CC10009952

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

<b>2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS</b>
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Components	CAS-No.	Weight %
Carbon black	1333-86-4	0.1 - 1
Chrome yellow (Lead chromate pigment)	1344-37-2	0.1 - 1
C.I. Pigment Red 108	58339-34-7	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Talc	14807-96-6	5 - 10

<b>3. HAZARDS IDENTIFICATION</b>
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**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 : 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.

## MATERIAL SAFETY DATA SHEET

**019GN118 -35539 VERSION - B**

Version Number 1.0

Page 2 of 8

Revision Date 02/04/2002

Print Date 11/3/2011

**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 relevant

**Suitable extinguishing media** : Carbon dioxide blanket, Water spray, dry powder, foam.

**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** : None

**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. 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

## MATERIAL SAFETY DATA SHEET

**019GN118 -35539 VERSION - B**

Version Number 1.0

Page 3 of 8

Revision Date 02/04/2002

Print Date 11/3/2011

only in areas with appropriate exhaust ventilation.

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)

## MATERIAL SAFETY DATA SHEET

**019GN118 -35539 VERSION - B**

Version Number 1.0

Page 4 of 8

Revision Date 02/04/2002

Print Date 11/3/2011

Components	Value	Exposure time	Exposure type	List:
C.I. Pigment Red 108	0.01 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Inhalable fraction. as Cd	ACGIH
	0.002 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Respirable fraction. as Cd	ACGIH
	0.005 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Cd	OSHA
	0.0025 mg/m <sup>3</sup>	OSHA Action level:	as Cd	OSHA
	0.2 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Se	ACGIH
	0.2 mg/m <sup>3</sup>	PEL:	as Se	OSHA Z1
Carbon black	3.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Total dust. as carbon black	ACGIH
	3.5 mg/m <sup>3</sup>	PEL:	Total dust. as carbon black	OSHA Z1
Chrome yellow (Lead chromate pigment)	0.10 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Cr	OSHA Z2
	0.01 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Cr	ACGIH
	1 mg/m <sup>3</sup>	PEL:	as Cr	OSHA Z1
	0.05 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Pb	ACGIH
	0.05 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Pb	OSHA
	0.03 mg/m <sup>3</sup>	OSHA Action level:	as Pb	OSHA
Talc	2 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Respirable dust.	ACGIH
	20 mppcf	Time Weighted Average (TWA):	Total dust.	OSHA
Titanium dioxide	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Total dust.	ACGIH
	15 mg/m <sup>3</sup>	PEL:	Total dust.	OSHA Z1

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Solid	Evaporation rate	: Not applicable.
Appearance	: Pellets	Specific Gravity	: Not determined
Color	: GREEN	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.

## MATERIAL SAFETY DATA SHEET

**019GN118 -35539 VERSION - B**

Version Number 1.0

Page 5 of 8

Revision Date 02/04/2002

Print Date 11/3/2011

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 (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), 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
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
1344-37-2	Chrome yellow (Lead chromate pigment)	Systemic effects	central nervous system, reproductive system.
58339-34-7	C.I. Pigment Red 108	Irritant	Eyes, Skin.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
14807-96-6	Talc	Systemic effects	Eyes, Respiratory system, 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
1333-86-4	Carbon black	Oral LD50 Dermal LD50	> 15,400 mg/kg > 3 gm/kg	rat 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
1333-86-4	Carbon black	no	2B	no
1344-37-2	Chrome yellow (Lead chromate pigment)	no	1	1
58339-34-7	C.I. Pigment Red 108	yes	1	1

## 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.

**019GN118 -35539 VERSION - B**

Version Number 1.0  
Revision Date 02/04/2002

Page 6 of 8  
Print Date 11/3/2011

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

**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:**

**Chrome yellow (Lead chromate pigment) 1344-37-2** 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:**

**C.I. Pigment Red 108 58339-34-7** Can produce rapid and sometimes fatal pulmonary edema, chronic absorption leads to liver and kidney damage.

## 12. ECOLOGICAL INFORMATION

Persistence and degradability	:	Not readily biodegradable.
Environmental Toxicity	:	Chemicals are not readily available as they are bound within the matrix of the polymer.
Bioaccumulation Potential	:	Chemicals are not readily available as they are bound within the matrix of the polymer.
Additional advice	:	No data available.

## 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. D.O.T. / CA T.D.G.	:	Not regulated for transportation.
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## MATERIAL SAFETY DATA SHEET

**019GN118 -35539 VERSION - B**

Version Number 1.0

Page 7 of 8

Revision Date 02/04/2002

Print Date 11/3/2011

Classification (Non-bulk ground)

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 are exempt.

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

## SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
CADMIUM COMPOUNDS SELENIUM COMPOUNDS	58339-34-7	1.24
CHROMIUM VI COMPOUNDS LEAD COMPOUNDS, INORGANIC	1344-37-2	0.19

## Canadian Regulations:

WHMIS Classification : D2A

## WHMIS Ingredient Disclosure List

CAS-No.
58339-34-7
1333-86-4
1344-37-2
7631-86-9
14807-96-6

DSL : Listed.

## National Inventories:

Australia AICS : Listed.

China IECS : Listed.

Europe EINECS : Not determined.

## MATERIAL SAFETY DATA SHEET

**019GN118 -35539 VERSION - B**

Version Number 1.0

Page 8 of 8

Revision Date 02/04/2002

Print Date 11/3/2011

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.