

MATERIAL SAFETY DATA SHEET

PX-14409-A GRAY HOT DIP PLASTISOL

Version Number 1.0 Page 1 of 7
Revision Date 06/11/2002 Print Date 11/4/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION

2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY : Product Stewardship, (314) 771-1800

TELEPHONE

Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure

number or accident).

Product name : PX-14409-A GRAY HOT DIP PLASTISOL

Product code : FO00008659 Chemical Name : Mixture CAS-No. : Mixture

Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Carbon black	1333-86-4	0.1 - 1
Antimony trioxide	1309-64-4	1 - 5
Calcium oxide	1305-78-8	1 - 5
Titanium dioxide	13463-67-7	1 - 5

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. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Skin contact, Ingestion

Acute exposure

Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory

tract.

Ingestion : May be harmful if swallowed. Eyes : May cause eye/skin irritation.

Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.



MATERIAL SAFETY DATA SHEET

PX-14409-A GRAY HOT DIP PLASTISOL

 Version Number 1.0
 Page 2 of 7

 Revision Date 06/11/2002
 Print Date 11/4/2011

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 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 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 : No data available.

Flammable Limits

Upper explosion limit : No data available.

Lower explosion limit : No data available.

Autoignition temperature : Not applicable.

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

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

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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper

disposal methods.

7. HANDLING AND STORAGE



MATERIAL SAFETY DATA SHEET

PX-14409-A GRAY HOT DIP PLASTISOL

 Version Number 1.0
 Page 3 of 7

 Revision Date 06/11/2002
 Print Date 11/4/2011

Handling : 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. Store in a cool dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Under normal handling conditions a respirator is not 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
Calcium oxide	2 mg/m3	Time Weighted Average	Dust.	ACGIH
		(TWA):		
Calcium oxide	5 mg/m3	PEL:	Dust.	OSHA Z1
Carbon black	3.5 mg/m3	Time Weighted Average	Total dust. as carbon	ACGIH
		(TWA):	black	
Carbon black	3.5 mg/m3	PEL:	Total dust. as carbon	OSHA Z1
			black	
Titanium dioxide	10 mg/m3	Time Weighted Average	Total dust.	ACGIH
		(TWA):		
Titanium dioxide	15 mg/m3	PEL:	Total dust.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid Evaporation rate Not established Viscous, Liquid Specific Gravity Not determined Appearance Color : GREY Bulk density Not applicable. : Not determined Vapor pressure Odor : Very faint Melting point/range : Not applicable Vapor density : Not determined



MATERIAL SAFETY DATA SHEET

PX-14409-A GRAY HOT DIP PLASTISOL

Version Number 1.0 Page 4 of 7
Revision Date 06/11/2002 Print Date 11/4/2011

Boiling Point: : Not applicable pH : Not applicable.

Water solubility : Immiscible

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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F),

and within 5 minutes at 232 °C (450 °F).

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.
1309-64-4	Antimony trioxide	Systemic effects	Eyes, Respiratory system.
		sensitizer	Skin.
1305-78-8	Calcium oxide	Irritant	Skin.
		Systemic effects	Eyes, Skin, Respiratory system.
		Corrosive	Skin.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory 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
1333-86-4	Carbon black	Oral LD50	> 15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit
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:



MATERIAL SAFETY DATA SHEET

PX-14409-A GRAY HOT DIP PLASTISOL

 Version Number 1.0
 Page 5 of 7

 Revision Date 06/11/2002
 Print Date 11/4/2011

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbon black	no	2B	no
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:

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:

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).

12	ECOL	OCTOAT	INFORMATION
I Z.	. P.C.C.H.	ANTICAL	HNRUKIVIA I IUJIN

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Environmental toxicity has not been established for this mixture as a

whole.

Bioaccumulation Potential : No data available.

Additional advice : No data available.

13. DISPOSAL CONSIDERATIONS

Product : 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



MATERIAL SAFETY DATA SHEET

PX-14409-A GRAY HOT DIP PLASTISOL

 Version Number 1.0
 Page 6 of 7

 Revision Date 06/11/2002
 Print Date 11/4/2011

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)

ICAO/IATA

: Not regulated for transportation.

: 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.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for
				Mixture/Product
Antimony trioxide	1309-64-4	0.95	1,000lbs	105,130 LB

California Proposition : WARNING! This product contains a chemical known in the State of

65 California to cause cancer.

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ANTIMONY COMPOUNDS	1309-64-4	0.95

Canadian Regulations:

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
1309-64-4	
7440-38-2	



MATERIAL SAFETY DATA SHEET

PX-14409-A GRAY HOT DIP PLASTISOL

 Version Number 1.0
 Page 7 of 7

 Revision Date 06/11/2002
 Print Date 11/4/2011

1305-78-8
1333-86-4
7631-86-9
75-01-4

DSL : Listed.

National Inventories:

Australia AICS : Listed.

China IECS : Not determined.

Europe EINECS : Not determined.

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.