



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

CX-6233-A L-9 BROWN PLASTISOL

Version Number 1.2
Revision Date 09/07/2007

Page 1 of 10
Print Date 11/30/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
8155 Cobb Center Drive, Kennesaw, GA 30152

Telephone : Product Stewardship (770) 590-3500 x.3563
Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Product name : CX-6233-A L-9 BROWN PLASTISOL
Product code : FO20003625
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Di(2-ethylhexyl)phthalate	117-81-7	0.1 - 1
Miscellaneous Nickel Compounds	Not Available	0.1 - 1
Carbon black	1333-86-4	1 - 5
Silica, amorphous, diatomaceous earth	68855-54-9	1 - 5
Silica, cristobalite	14464-46-1	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Miscellaneous Antimony compounds	Not Available	1 - 5
Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	8007-18-9	5 - 10

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.

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****CX-6233-A L-9 BROWN PLASTISOL**

Version Number 1.2

Revision Date 09/07/2007

Page 2 of 10

Print Date 11/30/2011

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.

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 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, 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 : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil. Should not be released into the environment.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

CX-6233-A L-9 BROWN PLASTISOL

Version Number 1.2
Revision Date 09/07/2007

Page 3 of 10
Print Date 11/30/2011

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

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 : 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)

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

CX-6233-A L-9 BROWN PLASTISOL

Version Number 1.2

Revision Date 09/07/2007

Page 4 of 10

Print Date 11/30/2011

Components	Value	Exposure time	Exposure type	List:	
Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	1 mg/m3	PEL:	as Ni	OSHA Z1	
	0.2 mg/m3	Time Weighted Average (TWA):	Inhalable fraction. as Ni	ACGIH	
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH	
	0.5 mg/m3	PEL:	as Sb	OSHA Z1	
Carbon black	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	MX OEL	
	3.5 mg/m3	Time Weighted Average (TWA):		ACGIH	
	3.5 mg/m3	PEL:		OSHA Z1	
	3.5 mg/m3	Time Weighted Average (TWA):		MX OEL	
	7 mg/m3	Short Term Exposure Limit (STEL):		MX OEL	
	Di(2-ethylhexyl)phthalate	5 mg/m3	Time Weighted Average (TWA):		ACGIH
		5 mg/m3	PEL:		OSHA Z1
5 mg/m3		Time Weighted Average (TWA):		MX OEL	
10 mg/m3		Short Term Exposure Limit (STEL):		MX OEL	
Silica, amorphous, diatomaceous earth	0.8 mg/m3	Time Weighted Average (TWA):		Z3	
	10 mg/m3	Time Weighted Average (TWA):	Inhalable particulate.	MX OEL	
	3 mg/m3	Time Weighted Average (TWA):	Respirable dust.	MX OEL	
Silica, cristobalite	0.025 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH	
	0.05 mg/m3	Time Weighted Average (TWA):	Respirable.	Z3	
	0.15 mg/m3	Time Weighted Average (TWA):	Total dust.	Z3	
	0.05 mg/m3	Time Weighted Average (TWA):		MX OEL	
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH	
	15 mg/m3	PEL:	Total dust.	OSHA Z1	
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL	
Miscellaneous Nickel Compounds	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL	
	0.2 mg/m3	Time Weighted Average (TWA):	as Ni	ACGIH	
	1 mg/m3	PEL:	as Ni	OSHA Z1	

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

CX-6233-A L-9 BROWN PLASTISOL

Version Number 1.2

Page 5 of 10

Revision Date 09/07/2007

Print Date 11/30/2011

Miscellaneous Antimony compounds	0.5 mg/m ³	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m ³	PEL:	as Sb	OSHA Z1
	0.5 mg/m ³	Time Weighted Average (TWA):	as Sb	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid	Evaporation rate	: Not established
Appearance	: Viscous, liquid	Specific Gravity	: Not determined
Color	: BROWN	Bulk density	: Not applicable
Odour	: Very faint	Vapour pressure	: Not determined
Melting point/range	: Not applicable	Vapour density	: Not determined
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 (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), 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
117-81-7	Di(2-ethylhexyl)phthalate	Systemic effects	Eyes, Respiratory system, Liver, central nervous system (CNS), Skin, digestive system.
Not Available	Miscellaneous Nickel Compounds	sensitizer	Skin.
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

CX-6233-A L-9 BROWN PLASTISOL

Version Number 1.2

Revision Date 09/07/2007

Page 6 of 10

Print Date 11/30/2011

68855-54-9	Silica, amorphous, diatomaceous earth	Irritant	Eyes, Skin, Respiratory system.
14464-46-1	Silica, cristobalite	Systemic effects	Respiratory system.
		Irritant	Eyes, Skin, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
Not Available	Miscellaneous Antimony compounds	Systemic effects	Eyes, Respiratory system.
		sensitizer	Skin.
8007-18-9	Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	Irritant	Eyes, Skin.
		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
117-81-7	Di(2-ethylhexyl)phthalate	Oral LD50 Dermal LD50	30 gm/kg 25 gm/kg	rat rabbit
1333-86-4	Carbon black	Oral LD50 Dermal LD50	> 15,400 mg/kg > 3 gm/kg	rat rabbit
Not Available	Miscellaneous Antimony compounds	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
Not Available	Miscellaneous Nickel Compounds	no	1	2
14464-46-1	Silica, cristobalite	no	1	no
13463-67-7	Titanium dioxide	no	2B	no
8007-18-9	Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	no	1	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:

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.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

CX-6233-A L-9 BROWN PLASTISOL

Version Number 1.2
Revision Date 09/07/2007

Page 7 of 10
Print Date 11/30/2011

Additional Health Hazard Information:

Miscellaneous Nickel Compounds Not Available 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). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. 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:

Silica, cristobalite 14464-46-1 This material in its free releasable form may cause respiratory tract irritation. Long-term exposure may cause coughing, chest pain, diminished chest expansion and possibly silicosis, which is a scarring of the lungs.

Additional Health Hazard Information:

Miscellaneous Antimony compounds Not Available 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:

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

12. ECOLOGICAL INFORMATION

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.



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

CX-6233-A L-9 BROWN PLASTISOL

Version Number 1.2
Revision Date 09/07/2007

Page 8 of 10
Print Date 11/30/2011

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 : Refer to specific regulation.
ICAO/IATA (air) : Refer to specific regulation.
IMO / IMDG (maritime) : Refer to specific regulation.

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)

Not applicable

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight %
NICKEL COMPOUNDSANTIMONY COMPOUNDS	8007-18-9	5.00 - 10.00
NICKEL COMPOUNDS	Not Available	0.10 - 1.00
ANTIMONY COMPOUNDSANTIMONY		1.00 - 5.00

Canadian Regulations:

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****CX-6233-A L-9 BROWN PLASTISOL**

Version Number 1.2

Revision Date 09/07/2007

Page 9 of 10

Print Date 11/30/2011

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	8007-18-9	5.00 - 10.00	168
		5.00 - 10.00	17
Zinc	7440-66-6	0.10 - 1.00	231
Miscellaneous Nickel Compounds	Not Available	0.10 - 1.00	168
1,2,4-Trimethylbenzene	95-63-6	0.10 - 1.00	223
Miscellaneous Antimony compounds	Not Available	1.00 - 5.00	17

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
8007-18-9
1333-86-4
117-81-7
68855-54-9
14464-46-1
95-63-6
Not Available

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:

Australia AICS : Not determined
China IECS : Not determined
Europe EINECS : Not determined
Japan ENCS : Not determined
Korea KECI : Not determined
Philippines PICCS : Not determined

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



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

CX-6233-A L-9 BROWN PLASTISOL

Version Number 1.2
Revision Date 09/07/2007

Page 10 of 10
Print Date 11/30/2011

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.