MATERIAL SAFETY DATA SHEET CX-6054-A CERT. IVORY PLASTISOL

Version Number 1.3 Revision Date 05/14/2005

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152

:	Product Stewardship (770) 590-3500 x.3563 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
:	CX-6054-A CERT. IVORY PLASTISOL
:	FO00003091
:	Mixture
:	Mixture
:	Industrial Applications
	: : :

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Di(2-ethylhexyl)phthalate	117-81-7	0.1 - 1
Naphthalene	91-20-3	0.1 - 1
Silica, amorphous	7631-86-9	1 - 5
Silica, amorphous, diatomaceous earth	68855-54-9	1 - 5
Silica, cristobalite	14464-46-1	1 - 5
Titanium dioxide	13463-67-7	10 - 30

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 Eyes	May be harmful if swallowed.May cause eye/skin irritation.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.

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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 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 seel medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: No data available
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media	 No data available No data available Not applicable 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), oxide of nitrogen (NOx), 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.
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



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		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. EXF	POSUI	RE 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.

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Components	Value	Exposure time	Exposure type	List:
Di(2-ethylhexyl)phthal	5 mg/m3	PEL:	Vapor.	OSHA Z1
ate Silica, amorphous	20 mppcf	PEL:	Total dust.	OSHA
Silica, allorphous	20 mppcf 20 mppcf	PEL:	Total dust.	Z3
	10 mg/m3	Time Weighted Average	Total dust.	ACGIH
	10 mg/m3	(TWA):		Acom
	0.8 mg/m3	Time Weighted Average (TWA):		Z3
Silica, amorphous, diatomaceous earth	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	0.8 mg/m3	Time Weighted Average (TWA):		Z3
Silica, cristobalite	0.05		Respirable fraction.	Z3
	mg/m3			
	0.15		Total dust.	Z3
	mg/m3			
	0.05	Time Weighted Average	Respirable fraction.	ACGIH
	mg/m3	(TWA):		
	0.05 mg/m3	Time Weighted Average (TWA):	Respirable.	Z3
	0.15 mg/m3	Time Weighted Average (TWA):	Total dust.	Z3
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Naphthalene	10 ppm 52 mg/m3	Time Weighted Average (TWA):	Vapor.	ACGIH
	15 ppm 79 mg/m3	Short Term Exposure Limit (STEL):	Vapor.	ACGIH
	10 ppm 50 mg/m3	PEL:	Vapor.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color Odor Melting point/range Boiling Point: Water solubility liquid
Viscous, liquid
WHITE
Very faint
Not applicable
Not applicable
Immiscible

Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density pH

- Not establishedNot determinedNot applicableNot determined
- : Not determined
- : Not applicable

10. STABILITY AND REACTIVITY

Stability

: Stable.

Hazardous Polymerization

: Will not occur.



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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
117-81-7	Di(2-ethylhexyl)phthalate	Systemic effects	Eyes, Respiratory system,
			Liver, central nervous system
			(CNS), Skin, digestive system.
91-20-3	Naphthalene	Irritant	Eyes.
		Systemic effects	Eyes, Respiratory system,
			central nervous system (CNS).
		toxic	Refer to LC50 / LD50 Data on
			MSDS
7631-86-9	Silica, amorphous	Irritant	Eyes, Respiratory system.
68855-54-9	Silica, amorphous,	Irritant	Eyes, Skin, Respiratory system.
	diatomaceous earth		
14464-46-1	Silica, cristobalite	Systemic effects	Respiratory system.
		Irritant	Eyes, Skin, Respiratory system.
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
117-81-7	Di(2-ethylhexyl)phthalate	Oral LD50	30 gm/kg	rat
		Dermal LD50	25 gm/kg	rabbit
91-20-3	Naphthalene	LC50	> 340 mg/m3	rat
		Oral LD50	490 mg/kg	rat
		Dermal LD50	> 20 gm/kg	rabbit

Carcinogenicity

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

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CAS-No.	Chemical Name	OSHA	IARC	NTP
91-20-3	Naphthalene	no	2B	no
14464-46-1	Silica, cristobalite	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.

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 caughing, chest pain, diminished chest expansion and possibly silicosis which is a scarring of the lungs.

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. Th 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 materia has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION

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IMO / IMDG (maritime) : Refer to specific regulation. IS. 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 TSC Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition : WARNING! This product contains a chemical known to the State of California Proposition : WARNING! This product contains a chemical known to the State of SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Not applicable	U.S. DOT Classification	: Refer to specific regulation.	
IS. 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 TSC Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition : WARNING! This product contains a chemical known to the State of 65 California Proposition : WARNING! This product contains a chemical known to the State of 65 SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Not applicable National Pollutant Release Inventory (NPRI) Chemical Name CAS-No. Weight % NPRI ID# 231 Zinc 7440-66-6 0.19 231 12.4-Trimethylbenzene 95-63-6 0.27 223 Naphthalene 91-20-3 0.47 167 WHMIS Classification : D2A WHMIS Ingredient Disclosure List CAS-No. 117-81-7	ICAO/IATA (air)	: Refer to specific regulation.	
US Regulations: OSHA Status : Classified as hazardous based on components. TSCA Status : All components of this product are listed on or exempt from the TSC Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition : WARNING! This product contains a chemical known to the State of California Proposition : WARNING! This product contains a chemical known to the State of California 02 Extremely Hazardous Substance Not applicable SARA Title III Section 312 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Not applicable Canadian Regulations: National Pollutant Release Inventory (NPRI) <u>National Pollutant Release Inventory (NPRI)</u> Mathematical Name 21,2,4-Trimethylbenzene 95-63-6 0.27 223 Naphthalene 91-20-3 0.47 167 WHMIS Classification : D2A WHMIS Ingredient Disclosure List <u>CAS-No.</u> <u>117-81-7</u>	IMO / IMDG (maritime)	: Refer to specific regulation.	
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TSCA Status : All components of this product are listed on or exempt from the TSC Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition : WARNING! This product contains a chemical known to the State of 65 California to cause cancer. SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Not applicable SARA Title III Section 313 Toxic Chemicals: Not applicable Canadian Regulations: National Pollutant Release Inventory (NPRI) <u>Chemical Name CAS-No. Weight % NPRI ID#</u> <u>Zinc 7440-66-6 0.19 231</u> <u>1.2,4-Trimethylbenzene 95-63-6 0.27 223</u> Naphthalene 91-20-3 0.47 167 WHMIS Classification : D2A WHMIS Ingredient Disclosure List <u>CAS-No.</u> <u>117-81-7</u>	US Regulations:		
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14464-46-1 95-63-6 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 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.