

MATERIAL SAFETY DATA SHEET

YELLOW

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1. PRODUCT AND COMPANY IDENTIFICATION

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	:	YELLOW
Product code	:	CC10001774
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
1,6-Hexanediamine,	70624-18-9	1 - 5
N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-,		
polymer with 2,4,6-trichloro-1,3,5-triazine,		
reaction products with2		
Cadmium	7440-43-9	1 - 5
Cadmium zinc sulfide ((Cd,Zn)S)	12442-27-2	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Barium sulfate	7727-43-7	5 - 10

3. HAZARDS IDENTIFICATION

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 Ingestion Eyes	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Resin particles, like other inert materials, are mechanically irritating to eyes.



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Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.
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, 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 Lower explosion limit Autoignition temperature Suitable extinguishing media	 Not applicable Not applicable Not relevant 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
Unusual Fire/Explosion Hazards	contaminants. : 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.



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		7. HANDLING AND STORAGE
Handling	:	Take measures to prevent the build up of electrostatic charge. Heat 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. EXP	POSUF	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.
Exposure limit(s)		



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Components	Value	Exposure time	Exposure type	List:
Barium sulfate	10 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Cadmium	0.01 mg/m3	Time Weighted Average (TWA):	Inhalable fraction. as Cd	ACGIH
	0.002 mg/m3	Time Weighted Average (TWA):	Respirable fraction. as Cd	ACGIH
	0.2 mg/m3	Time Weighted Average (TWA):	Dust.	OSHA Z2
	0.1 mg/m3	Time Weighted Average (TWA):	Fume.	OSHA Z2
	0.6 mg/m3	Ceiling Limit Value:	Dust.	OSHA Z2
	0.3 mg/m3	Ceiling Limit Value:	Fume.	OSHA Z2
	0.005 mg/m3	Time Weighted Average (TWA):		OSHA
Cadmium zinc sulfide ((Cd,Zn)S)	0.01 mg/m3	Time Weighted Average (TWA):	Inhalable fraction. as Cd	ACGIH
	0.002 mg/m3	Time Weighted Average (TWA):	Respirable fraction. as Cd	ACGIH
	0.005 mg/m3	Time Weighted Average (TWA):	as Cd	OSHA
	0.0025 mg/m3	OSHA Action level:	as Cd	OSHA
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color Odor Melting point/range Boiling Point: Water solubility

: Solid : Pellets YELLOW : Very faint : Not determined. : Not applicable : Insoluble

:

Evaporation rate Specific Gravity Bulk density Vapor pressure Vapor density pH

: Not applicable. Not determined. : Not established : Not applicable : Not applicable : Not applicable :

10. STABILITY AND REACTIVITY

:	Stable.
:	Will not occur.
:	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
:	Incompatible with strong acids and oxidizing agents.
	::



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Hazardous decomposition products

: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), 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.

<u>Toxicity Overview</u> This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
70624-18-9	1,6-Hexanediamine,	Highly Toxic	Refer to MSDS for Toxicity
	N,N'-bis(2,2,6,6-tetrameth		Data
	yl-4-piperidinyl)-,polymer		
	with		
	2,4,6-trichloro-1,3,5-triazi		
	ne, reaction products with2		
7440-43-9	Cadmium	Systemic effects	Respiratory system, blood and
			blood forming system, Kidney,
			urinary system, reproductive
			system.
		Highly Toxic	Refer to MSDS for Toxicity
			Data
12442-27-2	Cadmium zinc sulfide	Highly Toxic	Refer to MSDS for Toxicity
	((Cd,Zn)S)		Data
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
7727-43-7	Barium sulfate	Irritant	Respiratory system.
		Systemic effects	Eyes, 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
70624-18-9	1,6-Hexanediamine,	LC50	112 mgm34H	rat
	N,N'-bis(2,2,6,6-tetrameth	Oral LD50	9,910 mg/kg	rat
	yl-4-piperidinyl)-,polymer			
	with			
	2,4,6-trichloro-1,3,5-triazi			
	ne, reaction products with2			
7440-43-9	Cadmium	LC50	25 mgm330	rat
		Oral LD50	2,330 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
7440-43-9	Cadmium	yes	1	1



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12442-27-2 C	admium zinc sulfide	VOS	1	1			
	Cd,Zn)S)	yes	1	1			
2B - The component is poNTP Carcinogen Classific1 - The component is know	nogenic to humans. bably carcinogenic to huma ssibly carcinogenic to huma	ns. n.					
leads to liver and kidney Additional Health Hazar Cadmium zinc sulfide ((0	an produce rapid and som damage.	n produce rapid and	•	-			
	12. ECOLOGICAL	L INFORMATION					
Persistence and degradabi	ity : Not readily biode	: Not readily biodegradable.					
Environmental Toxicity	: Chemicals are no of the polymer.	: Chemicals are not readily available as they are bound within the matrix of the polymer.					
Bioaccumulation Potential	: Chemicals are no of the polymer.	: Chemicals are not readily available as they are bound within the matrix of the polymer.					
Additional advice	: No data available	2.					
	13. DISPOSAL CO	ONSIDERATIONS					
Product	recycling is prefe waste material ha transportation and	oplastics the product erred to disposal or in as the responsibility f d disposal in accorda and local regulations.	cineration. The or proper waste	e generator of classification,			
Contaminated packaging	has the responsib and disposal in ac	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. Classification (Non-bulk ground)	: Not regulated for	transportation.					



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ICAO/IATA : Not regulated for transportation.							
IMO / IMDG :	Not regulated for	transportation.					
15. REGULATORY INFORMATION							
US Regulations:							
OSHA Status :	Classified as haza	rdous based on comp	ponents.				
TSCA Status :	All components of exempt.	ponents of this product are listed on the TSCA inventory or are					
US. EPA CERCLA Hazardous Subs	tances (40 CFR 30	2)					
Chemical Name CAS-N Cadmium 7440-4		RQ for Mixture/Product 227 LB					
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 C	hemicals:						
Chemical Name		CAS-No.	Weight %				
CADMIUM		7440-43-9	4.40				
CADMIUM COMPOUNDS ZINC COMPOUNDS		12442-27-2	2.20				
Canadian Regulations:							
WHMIS Classification :	D1A						
WHMIS Ingredient Disclosure List							
CAS-No. 7440-43-9 12442-27-2							
DSL :	Listed.						
National Inventories:							
Australia AICS :	Listed.						
China IECS :	Listed.						
Europe EINECS :	Not determined.						



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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 used in combination with any other materials or in any process, unless specified in the text.