PolyOne

MATERIAL SAFETY DATA SHEET MARIGOLD 123

Version Number 1.1 Revision Date 03/13/2014 Page 1 of 8 Print Date 3/20/2014

1. PRODUCT AND COMPANY IDENTIFICATION			
POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012			
:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).		
:	MARIGOLD 123		
:	CC10128755		
:	Mixture		
:	Mixture		
:	Industrial Applications		
	ON 1 Lake, :		

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
1,6-Hexanediamine, N,N'-bis(2,2,6,6- tetramethyl-4-piperidinyl)-,polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products	70624-18-9	10 - 30
Titanium dioxide	13463-67-7	0.1 - 1
Rutile, antimony chromium buff	68186-90-3	10 - 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors 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.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation	: Resin particles, like other inert materials, can be mechanically irritating.
Ingestion Eyes	May be harmful if swallowed.Resin particles, like other inert materials, are mechanically irritating to

POLYONE CORPORATION



MATERIAL SAFETY DATA SHEET MARIGOLD 123

Version Number 1.1 Page 2 of 8 Print Date 3/20/2014 Revision Date 03/13/2014 eyes. 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. Rinse immediately with plenty of water, also under the eyelids, for at Eyes : least 15 minutes. If eye irritation persists, seek medical attention. Wash off with soap and plenty of water. If skin irritation persists Skin : seek medical attention. 5. FIREFIGHTING MEASURES Flash point not applicable : Flammable Limits Upper explosion limit : not applicable Lower explosion limit : not applicable Auto-ignition temperature : not applicable Suitable extinguishing media Carbon dioxide blanket, Water spray, Dry powder, Foam. : Special Fire Fighting Fullface self-contained breathing apparatus (SCBA) used in positive : Procedures pressure mode should be worn to prevent inhalation of airborne contaminants. Unusual Fire/Explosion : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen Hazards (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. Should not be released into the environment. The product should not Environmental precautions : be allowed to enter drains, water courses or the soil. : Clean up promptly by sweeping or vacuum. Package all material in Methods for cleaning up plastic, cardboard or metal containers for disposal.

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MATERIAL SAFETY DATA SHEET MARIGOLD 123

Version Number 1.1 Revision Date 03/13/2014 Page 3 of 8 Print Date 3/20/2014

Handling	ing : Take measures to prevent the build up of electrostatic charge. 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. EXI	POSU	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.

PolyOne

MATERIAL SAFETY DATA SHEET MARIGOLD 123

Version Number 1.1 Revision Date 03/13/2014 Page 4 of 8 Print Date 3/20/2014

Components	Value	Exposure time	Exposure type	List:
Rutile, antimony chromium buff	0.5 mg/m3	Recommended exposure limit (REL):	as Cr	NIOSH
	0.5 mg/m3	PEL:	as Cr	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m3	Recommended exposure limit (REL):	as Sb	NIOSH
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	OSHA Z1A
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	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):	Total dust.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	
Appearance	
Colour	
Odour	
Melting point/range	
Boiling Point:	
Water solubility	

solid pellets YELLOW very faint Not determined not applicable insoluble

Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density pH

- : Not applicable
- : Not determined
- : Not established
- : not applicable
- : not applicable
- : not applicable

10. STABILITY AND REACTIVITY

Stability	:	The product is stable if stored and handled as prescribed.
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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

MATERIAL SAFETY DATA SHEET MARIGOLD 123

Version Number 1.1 Revision Date 03/13/2014

Page 5 of 8 Print Date 3/20/2014

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
70624-18-9	1,6-Hexanediamine, N,N'- bis(2,2,6,6-tetramethyl-4- piperidinyl)-,polymer with 2,4,6-trichloro-1,3,5- triazine, reaction products	Irritant	Eyes, Skin, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
68186-90-3	Rutile, antimony chromium buff	Irritant	Eyes, Skin, 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, N,N'- bis(2,2,6,6-tetramethyl-4- piperidinyl)-,polymer with 2,4,6-trichloro-1,3,5- triazine, reaction products	Oral LD50 Dermal LD50	> 2,000 mg/kg > 3,000 mg/kg	rat 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
13463-67-7	Titanium dioxide	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.

12. ECOLOGICAL INFORMATION

Persistence and degradability	:	Not readily biodegradable.
Environmental Toxicity	:	Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation Potential	:	Chemicals are not readily available as they are bound within the

POLYONE CORPORATION



MATERIAL SAFETY DATA SHEET MARIGOLD 123

Version Number 1.1 Revision Date 03/13/2014 Page 6 of 8 Print Date 3/20/2014

	polymer matrix.
Additional advice	: no data available
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastic plastics 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. DOT Classification	: Not regulated for transportation.
ICAO/IATA	: 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 Hazardo	us Substances (40 CFR 302)
not applicable	
California Proposition 65	n : Not applicable
SARA Title III Section 302 F	Extremely Hazardous Substance
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regula

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MATERIAL SAFETY DATA SHEET MARIGOLD 123

Version Number 1.1 Revision Date 03/13/2014 Page 7 of 8 Print Date 3/20/2014

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 percent
CHROMIUM III COMPOUNDSCHROMIUM	1308-38-9	0.10 - 1.00
COMPOUNDS		
CHROMIUM III COMPOUNDSCHROMIUM III	68186-90-3	10.00 - 30.00
COMPOUNDSANTIMONY		
COMPOUNDSCHROMIUM COMPOUNDS		

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Chromium (III) oxide	1308-38-9	0.10 - 1.00	
Rutile, antimony chromium buff	68186-90-3	10.00 - 30.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
68186-90-3	

DSL

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
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

MATERIAL SAFETY DATA SHEET MARIGOLD 123

Version Number 1.1 Revision Date 03/13/2014 Page 8 of 8 Print Date 3/20/2014

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.