MATERIAL SAFETY DATA SHEET AMARILLO

Version Number 1.1 Revision Date 12/26/2012

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POLYONE CORPORATI 33587 Walker Road, Avoi		OH 44012
Геlephone	:	1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	AMARILLO
Product code	:	CC10132623
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

Components	CAS-No.	Weight percent
Titanium dioxide	13463-67-7	5 - 10

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 enduser (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. Do not use this pigment in polymers at temperatures over 200°C (392°F). Decomposition of diarylide pigments in polymers at temperatures over 200°C (392°F) may produce trace amounts of monoazo dyes, which in turn can decompose to produce aromatic amines. The amount and type of degradation products formed depend on the dwell time, formulation and processing conditions as well as temperature. As conditions become more severe, as when temperatures move into the 240-300°C (464-572°F) range, trace quantities of 3,3'dichlorobenzidine can be generated. 3,3'-dichlorobenzidine is classified as a suspect carcinogen by NTP and IARC, is classified as Acute Toxicity category 4 and Carcinogen Category 1B according to 1272/2008EC (CLP), and is regulated by OSHA as a suspect carcinogen. In order to avoid the generation of and exposure to 3,3'-dichlorobenzidine, do not use diarylide pigments in polymers when temperatures exceed 200°C (392°F). Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:

: Inhalation, Ingestion, Skin contact

Acute exposure



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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
Skin	eyes.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. FIREFIGHTING MEASURES
Flash point	: not applicable
Flammable Limits	
Upper explosion limit	: not applicable
Lower explosion limit	: not applicable
Auto-ignition temperature Suitable extinguishing media	not applicableCarbon 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	: Carbon dioxide (CO2), carbon monoxide (CO), oxides 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.



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Environmental precaution	autions : 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	р	lastic, cardboard or metal conta	n up promptly by sweeping or vacuum. Package all material in ic, cardboard or metal containers for disposal. Refer to Section 5 this MSDS for proper disposal methods.			
	7.	HANDLING AND STORAG	FE			
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.				
8.1	EXPOSURE	CONTROLS/PERSONAL I	PROTECTION			
Respiratory protection	: N	lo personal respiratory protecti	ve equipment normally	required.		
Eye/Face Protection	: S	: Safety glasses with side-shields				
Hand protection	: P	: Protective gloves				
Skin and body protection	: L	: Long sleeved clothing				
Additional Protective Measures	: S	afety 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		leat only in areas with appropri ppropriate exhaust ventilation a		Provide		
Exposure limit(s)						
Components	Value	Exposure time	Exposure type	List:		
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

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Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility	: Y : vo : N : no	olid ellets ELLOW ery faint ot determined ot applicable isoluble	Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pH	 Not applicable Not determined Not established not applicable not applicable not applicable
	1	0. STABILITY AN	D REACTIVITY	
Stability	:	Stable		
Hazardous Polymeri	zation :	Will not occur.		
Conditions to avoid	:	Keep away from o decomposition, do	xidizing agents and open f not overheat.	lame. To avoid thermal
Incompatible Mater	als :	Incompatible with	strong acids and oxidizing	g agents.
Hazardous decompo products	sition :	(NOx), other hazar use this pigment in Decomposition of over 200°C (392°T which in turn can amount and type o time, formulation a As conditions becc the 240-300°C (46 dichlorobenzidine classified as a susp Acute Toxicity cat 1272/2008EC (CL carcinogen. In orc dichlorobenzidine, temperatures excer	202), carbon monoxide (CO rdous materials, and smoke a polymers at temperatures diarylide pigments in poly F) may produce trace amound decompose to produce around f degradation products for and processing conditions to me more severe, as when 64-572°F) range, trace quart can be generated. 3,3'-dic beet carcinogen by NTP an regory 4 and Carcinogen C P), and is regulated by OS ler to avoid the generation , do not use diarylide pigm ed 200°C (392°F). Handle ential to be explosive with	e are all possible. Do not over 200°C (392°F). mers at temperatures ints of monoazo dyes, matic amines. The med depend on the dwell as well as temperature. temperatures move into ntities of 3,3'- hlorobenzidine is di IARC, is classified as ategory 1B according to HA as a suspect of and exposure to 3,3'- ents in polymers when e with care. Organic
	11.	TOXICOLOGICA	L 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:

		0 0
13463-67-7Titanium dioxideSystem	systemic effects	Respiratory system.

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Carcinogenicity

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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 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



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US Regulations:		
OSHA Status	: Classified as hazardous based on components.	
TSCA Status	: All components of this product are listed on or exempt from TSCA Inventory.	n the
US. EPA CERCLA Hazardous	Substances (40 CFR 302)	
not applicable		
California Proposition 65	: Not applicable	
SARA Title III Section 302 Ext	remely Hazardous Substance	
Unless specific chemicals are id	lentified under this section, this product is Not Applicable under t	this regula
SARA Title III Section 313 Toy	kic Chemicals:	
Unless specific chemicals are id	lentified under this section, this product is Not Applicable under t	this regula
Canadian Regulations:		
National Pollutant Relea	se Inventory (NPRI)	
not applicable		
WHMIS Classification	: D2A	
DSL	: All components of this product are on the Canadian Domes Substances List (DSL) or are exempt.	stic
National Inventories:		
Australia AICS	: Listed	
China IECS	: Listed	
	: Listed	
Europe EINECS		
Europe EINECS Japan ENCS	: Listed	

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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.