PolvOne

MATERIAL SAFETY DATA SHEET 202660 VERDE

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1.	PROD	UCT AND COMPANY IDENTIFICATION
POLYONE CORPORATI 33587 Walker Road, Avoi		OH 44012
Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	202660 VERDE
Product code	:	CC10134953
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use		Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Titanium dioxide	13463-67-7	1 - 5

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	: Particulates, like other inert materials can be mechanically irritating. If overheated or burnt, the polymer releases formaldehyde.
Ingestion	: May be harmful if swallowed.
Eyes	: Particulates, like other inert materials can be mechanically irritating.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.

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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 o 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 Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. If overheated or burnt, the polymer releases formaldehyde. May burn with invisible flame. 6. ACCIDENTAL RELEASE MEASURES
	0. 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.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Open



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		ontainer only in a well-ventilate ppropriate exhaust ventilation.	d area. Heat only in a	areas with	
Storage		Leep containers dry and tightly c nd contamination. Keep in a dr		re absorption	
8.1	EXPOSURE	CONTROLS/PERSONAL P	ROTECTION		
Respiratory protection	V ir p	lo personal respiratory protectiv When temperatures exceed 230° nadequate to maintain concentra ositive air supplied respirator. A rovide adequate protection.	C (446°F) and ventilat tions below exposure	tion is limits, use a	
Eye/Face Protection		afety glasses with side-shields or abnormal processing problem		protective suit	
Hand protection	: P	rotective gloves			
Skin and body protection	: L	ong sleeved clothing			
Additional Protective Measures	: Safety shoes				
General Hygiene Considerations					
Engineering measures	asures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.				
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

Form Appearance Colour Odour

: solid : pellets, Slabs : GREEN : formaldehyde-like Evapouration rate Specific Gravity Bulk density Vapour pressure

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

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 Melting point/range Boiling Point: Water solubility	: nc	ot determined ot applicable soluble	Vapour density pH	:	not applicable not applicable
	1(). STABILITY AND R	EACTIVITY		
Stability	:	The product is stable i	f stored and handled a	is presc	cribed.
Hazardous Polymerization	:	Will not occur.			
Conditions to avoid	:	Maintain polymer tem prolonged exposure at temperature.			
Incompatible Materials	:	Incompatible with struct (decomposes to form for resins are incompatible (PVC) and any elastor processing conditions, involve rapid degradate can cause sudden and Workplace fume well Unsafe pressurization result. Thoroughly put equipment to avoid eve from coming in contact virgin or rework resin.	Formaldehyde). At me e with halogenated po ners containing any ha these materials are m ion. Even small amou spontaneous formalde above threshold levels of equipment such as ge and mechanically of en trace quantities of et with the acetal. Prev	It temp lymers alogena utually ints of a shyde g s are a extrude clean p halogen	eratures, acetal such as vinyl ated polymers. At destructive and such contaminants as formation. likely result. er or mold can also rocessing nated materials
Hazardous decomposition products	:	Carbon dioxide (CO2) (NOx), other hazardou overheated or burnt, th Decomposition of this exposed to elevated te temperature of 210°C- not be significant until accelerated by contam	as materials, and smok ne polymer releases for material depends on t mperatures. At the rec 220°C (410°F-428°F) after 30 minutes. Dec	te are a rmalde the leng comme), decon compos	ll possible. If hyde. ght of time it is nded processing mposition should sition may be

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
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

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.

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	: not applicable
	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 compone TSCA Invent	ents of this product a ory.	are listed on or exer	mpt from the
US. EPA CERCLA Hazardo	ous Substances (40 CF	R 302)		
not applicable				
California Propositio 65	n : Not applicab	le		
SARA Title III Section 302	Extremely Hazardous	Substance		
Unless specific chemicals ar	e identified under this	section, this produc	t is Not Applicable	e under this regu
SARA Title III Section 313 Unless specific chemicals are	Toxic Chemicals:	-	t is Not Applicable	e under this regu
SARA Title III Section 313 Unless specific chemicals are Canadian Regulations: National Pollutant Re	Toxic Chemicals: e identified under this	section, this produc I)		
SARA Title III Section 313 Unless specific chemicals are Canadian Regulations:	Toxic Chemicals: e identified under this	section, this produc	t is Not Applicable Weight percent	e under this regu NPRI ID#
SARA Title III Section 313 Unless specific chemicals are Canadian Regulations: National Pollutant Re	Toxic Chemicals: e identified under this	section, this produc I)	Weight	
SARA Title III Section 313 ⁷ Unless specific chemicals are Canadian Regulations: <u>National Pollutant Re</u> Chemical Name <u>Phthalocyanine green</u> WHMIS Classification WHMIS Ingredient D CAS-No.	Toxic Chemicals: e identified under this elease Inventory (NPR	section, this produc I) CAS-No.	Weight percent	
SARA Title III Section 313 Unless specific chemicals are Canadian Regulations: <u>National Pollutant Re</u> Chemical Name Phthalocyanine green WHMIS Classificatio WHMIS Ingredient D	Toxic Chemicals: e identified under this elease Inventory (NPR black in the second sec	section, this produc I) CAS-No.	Weight percent 1.00 - 5.00	NPRI ID#
SARA Title III Section 313 ⁷ Unless specific chemicals are Canadian Regulations: <u>National Pollutant Re</u> Chemical Name Phthalocyanine green WHMIS Classification WHMIS Ingredient D <u>CAS-No.</u> 1328-53-6 DSL	Toxic Chemicals: e identified under this elease Inventory (NPR black in the second sec	section, this product I) CAS-No. 1328-53-6 ents of this product a	Weight percent 1.00 - 5.00	NPRI ID#
SARA Title III Section 313 ⁷ Unless specific chemicals are Canadian Regulations: <u>National Pollutant Re</u> Chemical Name Phthalocyanine green WHMIS Classificatio WHMIS Ingredient D <u>CAS-No.</u> <u>1328-53-6</u>	Toxic Chemicals: e identified under this elease Inventory (NPR black in the second sec	section, this product I) CAS-No. 1328-53-6 ents of this product a ist (DSL) or are exe	Weight percent 1.00 - 5.00	NPRI ID#



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