MATERIAL SAFETY DATA SHEET PG 63677.00 RD HDPE AS

Version Number 1.0 Revision Date 01/07/2005

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone : Emergency telephone : number	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	PG 63677.00 RD HDPE AS
Product code	:	CC10063677
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
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 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.
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.

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	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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits	
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Autoignition temperature	: Not applicable
Suitable extinguishing media	: Carbon dioxide blanket, water spray, dry powder, foamnone.
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.
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 12 of this MSDS for proper disposal methods.
	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

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8. F	XPOSURE	CONTROLS / PERSO	NAL I	PROTECTION		
Respiratory protection	: N	o personal respiratory p	rotectiv	ve equipment norm	ally r	equired.
Eye/Face Protection	: S	afety glasses with side-s	hields.			
Hand protection	: P	rotective gloves.				
Skin and body protection	: L	ong sleeved clothing.				
Additional Protective Measures	: S	afety shoes.				
General Hygiene Considerations		andle in accordance with Vash hands before breaks				afety practice
Engineering measures		leat only in areas with ap ppropriate exhaust ventil			tion.	Provide
Exposure limit(s)						
Components	Value	Exposure time		Exposure type	,	List:
Titanium dioxide	10 mg/m3	Time Weighted Aver (TWA):	age		<u> </u>	ACGIH
	15 mg/m3	PEL:		Total dust.		OSHA Z1
	9. PHYSIC	CAL AND CHEMICAI	L PRO	PERTIES		
Form	: Solid	1 1	Evanor	ation rate :	Not	applicable
Appearance	: Pelle			c Gravity: :		determined
Color	: RED		Bulk density : Not established			
Odor	: Very			pressure :	Not	applicable
Melting point/range	: Not o	determined	Vapour	density :	Not	applicable
Boiling Point:			рН	:	Not	applicable
Water solubility	: Insol	uble				
	10. 8	STABILITY AND REA	CTIV	ITY		
Stability	: S	table.				
Hazardous Polymerization	n : W	Vill not occur.				
Conditions to avoid		eep away from oxidizing			To a	void thermal

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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.

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.	
	12. ECOLOGI	CAL INFORMATION	I	
Persistence and degrada	bility : Not readily b	iodegradable.		
Environmental Toxicity	Chemicals ar polymer mat		as they are bound within the	
Bioaccumulation Poten	tial : Chemicals ar polymer mati		as they are bound within the	
Additional advice	: No data avail	lable		
	13. DISPOSAL	CONSIDERATIONS		
Product Contaminated packagin	g : Recycling is has the respo	hermoplastic plastics the product can be recycled. Where cycling is preferred to disposal or incineration. The f waste material has the responsibility for proper waste on, transportation and disposal in accordance with federal, state/provincial and local regulations. s preferred when possible. The generator of waste material ponsibility for proper waste classification, transportation al in accordance with applicable federal, state/provincial egulations.		
	14. TRANSPO	RT INFORMATION		
U.S. DOT Classification	n : Not regulated	l for transportation.		
ICAO/IATA (air)	ir) : Refer to specific regulation.			
IMO / IMDG (maritime	e) : Refer to spec	ific regulation.		
	15. REGULAT	ORY INFORMATION	1	

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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 the TSCA (neurony). US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition :: This product does not contain a substance listed by California Prop 65. 65 SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Not applicable Canadian Regulations: National Pollutant Release Inventory (NPRI) Not applicable SIL Mational Pollutant Release Inventory (NPRI) Not applicable Mational Pollutant Release Inventory (NPRI) Not applicable Mational Pollutant Release Inventory (NPRI) Not applicable Mational Inventories: Australia ALCS Mot determined Japan ENCS Australia ALCS Mot determined Japan ENCS Korea KECI Yot determined Australia ALCS Listed Philippines PICCS Yot determined Australia ALCS Listed Philippines PICCS Yot determined Australia ALCS Listed	/ersion Number 1.0 Revision Date 01/07/2005			Print Date	Page 5 of 6 11/16/2017
OSHA Status : Classified as hazardous based on components. TSCA Status : All components of this product are listed on or exempt from the TSCA liventory. USLEPA CERCLA Hazardous Substances (40 CFR 302) Not applicable . California Proposition : This product does not contain a substance listed by California Prop 65. 65 SARA Title III Section 302 Extremely Hazardous Substance . SARA Title III Section 302 Extremely Hazardous Substance . SARA Title III Section 313 Toxic Temicals: . Not applicable . Canadian Regulations: . National Pollutant Release Interproty (NPRI) . Not applicable . Quarter Interproteistic . MHIS Classification : . Not applicable . . VEMIS Classification : . Not applicable . . VEMIS Classification : . DSL . . . DSL . . . Chrona Inventories: . . Chrona IECS <td< td=""><td>US Regulations:</td><td></td><td></td><td></td><td></td></td<>	US Regulations:				
TSCA Status All components of this product are listed on or exempt from the TSCA liventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition This product does not contain a substance listed by California Prop 65. 65 SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 303 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Hemicals: Not applicable Vanional Pollutant Release Hemicals: Not applicable Quartical Regulations: National Pollutant Release Hemicals: Not applicable Quartical Regulations: Not applicable Quartical Regulations: Not applicable Quartical Regulations: Quartical Regulations: National Pollutant Release List (NPRI) Ref Quartical Ref All components of this product are on the Canadian Domestic Ubstances List (DSL) or are exempt. Not applicable Game Ref Quartical AICS Isted China IECS Not determined Iapan ENCS Not determined Iap	-	:	Classified as hazardous based on components.		
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	Korea KECI	:	Listed		
16. OTHER INFORMATION	Philippines PICCS	:	Listed		
			16. OTHER INFORMATION		



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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.