MATERIAL SAFETY DATA SHEET HDPE SILVER W/O LASER

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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	:	HDPE SILVER W/O LASER	
Product code	:	CC10021790	
Chemical Name	:	Mixture	
CAS-No.	:	Mixture	
Product Use	:	Industrial Applications	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	5 - 10
Mica	12001-26-2	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 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 eves. 		
Skin	: Experience shows no unusual dermatitis hazard from routine handling.		
Chronic exposure	: Refer to Section 11 for Toxicological Information.		

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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.
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 seel medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature	 Not applicable Not applicable 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.



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Storage Keep containers dry and tightly closed to avoid moisture absorption : and contamination. Keep in a dry, cool place. 8. EXPOSURE 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 Safety shoes. : Measures General Hygiene Handle in accordance with good industrial hygiene and safety practice. : Considerations 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)

Components	Value	Exposure time	Exposure type	List:
Mica	20 mppcf	PEL:	Total dust.	OSHA
	3 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		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
 GREY
 Very faint
 Not determined
 Not applicable
 Insoluble
- Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density pH
- Not applicable
 Not determined
 Not established
 Not applicable
 Not applicable
- : Not applicable
- : Not applicable
- **10. STABILITY AND REACTIVITY**

Stability

: Stable.

Hazardous Polymerization

: Will not occur.



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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

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.		hemical Name	Effect	Target Organ		
13463-67-7	Titaniu	m dioxide	Systemic effects	Respiratory system.		
12001-26-2	Mica		Systemic effects	Respiratory system.		
		12 ECOLOGIO	CAL INFORMATION	1		
		12. LCOLOGIC		<u> </u>		
Persistence and deg	radability	: Not readily bi	odegradable.			
Environmental Toxicity			Chemicals are not readily available as they are bound within the matrix of the polymer.			
Bioaccumulation Potential			Chemicals are not readily available as they are bound within the matrix of the polymer.			
Additional advice : No d		: No data avail	lo data available			
		13. DISPOSAL	CONSIDERATIONS			
Product		possible recyc generator of v classification,	cling is preferred to dis vaste material has the r	product can be recycled. Where posal or incineration. The esponsibility for proper waste posal in accordance with nd local regulations.		
Contaminated packaging		has the respon- and disposal i	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. TRANSPO	RT INFORMATION			
U.S. DOT Classific	ation	: Not regulated	for transportation.			

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WHMIS Ingredient Disclosure List		
CAS-No.	WHMIS Classification :	D2B
	WHMIS Ingredient Disclosu	ire List
12001-26-2	CAS-No.	
	12001-26-2	
DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.	DSL :	
National Inventories:	National Inventories:	
Australia AICS : Listed	Australia AICS :	Listed

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China IECS	:	Listed
Europe EINECS	:	Listed
Japan ENCS	:	Not determined
Korea KECI	:	Listed
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 when used in combination with any other materials and/or in any particular process or processing conditions.