

MATERIAL SAFETY DATA SHEET

STAINLESS STEEL

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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	:	STAINLESS STEEL	
Product code	:	CC10018677	
Chemical Name	:	Mixture	
CAS-No.	:	Mixture	
Product Use	:	Industrial Applications	

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Carbon black	1333-86-4	0.1 - 1
Aluminum	7429-90-5	10 - 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. 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 even 			
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.			



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	2	and contamination. Keep in a d	lry, cool place.			
8. F	XPOSURE	CONTROLS / PERSONAL	PROTECTION			
Respiratory protection	: 1	No personal respiratory protecti	ive equipment normally r	equired.		
Eye/Face Protection	: 5	Safety glasses with side-shields				
Hand protection	: I	Protective gloves.				
Skin and body protection	: I	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.				
Exposure limit(s)						
Components	Value	Exposure time	Exposure type	List:		
Aluminum	10 mg/m3	Time Weighted Average (TWA):	Dust.	ACGIH		
	5 mg/m3	Time Weighted Average (TWA):	Welding fume. as Al	ACGIH		
A 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15	DEL .	Tetal duration Al	OCUL 71		

15 mg/m3	PEL:	Total dust. as Al	OSHA Z1
5 mg/m3	PEL:	Respirable dust. as Al	OSHA Z1
3.5 mg/m3	Time Weighted Average	Total dust. as carbon	ACGIH
	(TWA):	black	
3.5 mg/m3	PEL:	Total dust. as carbon	OSHA Z1
		black	
	5 mg/m3 3.5 mg/m3	5 mg/m3PEL:3.5 mg/m3Time Weighted Average (TWA):	5 mg/m3PEL:Respirable dust. as Al3.5 mg/m3Time Weighted Average (TWA):Total dust. as carbon black3.5 mg/m3PEL:Total dust. as carbon

9. PHYSICAL AND CHEMICAL PROPERTIES

- : Solid Form Appearance : Pellets : GREY Color Odor : Very faint Melting point/range : Not determined Boiling Point: : Not applicable Water solubility : Insoluble
- Evaporation rate Specific Gravity Bulk density Vapor pressure Vapor density pН
- : Not applicable.
- : Not determined
- : Not established
- : Not applicable

10. STABILITY AND REACTIVITY

Stability

: Stable.

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- : Not applicable
- : Not applicable



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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

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
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
7429-90-5	Aluminum	Irritant	Skin, Respiratory system.
		Systemic effects	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
1333-86-4	Carbon black	Oral LD50	>15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit

Carcinogenicity:

This product contains the following components which in their pure form have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbon black	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.

Additional Health Hazard Information:



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Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

Persistence and degradability	: Not readily biodegradable.
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 data available.
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastics 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 materia 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 / CA TDG Classification	: Not regulated for transportation.
ICAO/IATA	: Not regulated for transportation.
IMO / IMDG	: Not regulated for transportation.
	15. REGULATORY INFORMATION
US Regulations:	



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OSHA Status	: Classified as haza	ardous based on comp	oonents.		
TSCA Status	: All components o exempt.	All components of this product are listed on the TSCA inventory or are			
US. EPA CERCLA Hazardous S	ubstances (40 CFR 30)2)			
Not applicable					
California Proposition 65	: This product does	s not contain a substar	nce listed by California Prop 65.		
SARA Title III Section 313 Toxi	c Chemicals:				
Chemical Name ALUMINUM (FU	JME OR DUST)	CAS-No. 7429-90-5	Weight % 25.72		
Canadian Regulations:			·		
-	: D2A				
WHMIS Ingredient Disclo	osure List				
CAS-No. 7429-90-5]				
DSL	: Listed.				
National Inventories:					
Australia AICS	: Not determined.				
China IECS	: Listed.				
Europe EINECS	: Not determined.				
Japan ENCS	: Not determined.				
Korea KECI	: Listed.				
Philippines PICCS	: Listed.				
	16. OTHER IN	FORMATION			



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