

MATERIAL SAFETY DATA SHEET

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	:	STEEL	
Product code	:	CC10021493	
Chemical Name	:	Mixture	
CAS-No.	:	Mixture	
Product Use	:	Industrial Applications	

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	1 - 5
Aluminum	7429-90-5	5 - 10

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 eyes. 	
Skin Chronic exposure	 Experience shows no unusual dermatitis hazard from routine handling. 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 seel medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit	Not applicableNot applicable
Autoignition temperature Suitable extinguishing media	 Not applicable Not relevant Carbon dioxide blanket, Water spray, dry powder, foam.
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. None
	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 13 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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and contamination. Keep in a dry, cool place.				
8. E	XPOSURE	CONTROLS / PERSONAI	L PROTECTION	
Respiratory protection	: N	lo personal respiratory protec	tive equipment normally r	equired.
Eye/Face Protection	: Safety glasses with side-shields.			
Hand protection	: Pr	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: Sa	afety shoes.		
General Hygiene Considerations				
Engineering measures		leat only in areas with approp ppropriate exhaust ventilatior		Provide
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
Aluminum	15 mg/m3	PEL:	Total dust. as Al	OSHA Z
	5 mg/m3	PEL:	Respirable dust. as Al	OSHA ZI
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
Titanium dioxide	15 mg/m3	PEL:	Total dust.	OSHA ZI
	9. PHYSIC	CAL AND CHEMICAL PR	OPERTIES	
Form	: Solid	l Evan	oration rate : Not	applicable.
Appearance	: Pelle			determined
Color	: GRE		2	established
Odor	: Very		•	applicable
Melting point/range				applicable
Boiling Point:		applicable pH	: Not	applicable
Water solubility	: Insol	uble		
	10. S	STABILITY AND REACTI	VITY	
Stability	: S1	table.		
Hazardous Polymerization	**	Vill not occur.		



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Conditions to avoid		om oxidizing agents an n, do not overheat.	d open flame. To avoid thermal	
Incompatible Materials : Incompatible with strong acids and oxidizing agents.			oxidizing agents.	
Hazardous decompositi products			oxide (CO), oxides of nitrogen ad smoke are all possible.	
	11. TOXICOLOG	ICAL INFORMATIO	DN	
health data for the indiv Toxicity Overview	vidual components which co	omprise the mixture.	re effects listed are based on ex have the following characteristi	
CAS-No.	Chemical Name	Effect	Target Organ	
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.	
7429-90-5	Aluminum	Irritant	Skin, Respiratory system.	
1427 70 5	7 Hummum	Systemic effects	Eyes, Skin, Respiratory system	
		Systemic criters	Eyes, 5km, Respiratory system	
	12. ECOLOGIO	CAL INFORMATION	I	
Persistence and degrada Environmental Toxicity	Chemicals are	e not readily available a	s they are bound within the matr	
Bioaccumulation Potential : Chemi		of the polymer. Chemicals are not readily available as they are bound within the matri of the polymer.		
Additional advice	: No data availa	able.		
	13. DISPOSAL	CONSIDERATIONS		
Product	possible, recy generator of v classification,	cling is preferred to dis vaste material has the r	ct can be recycled. Where sposal or incineration. The esponsibility for proper waste posal in accordance with nd local regulations.	
Contaminated packagin	has the respon- and disposal i	nsibility for proper was n accordance with app	e. The generator of waste materi te classification, transportation licable federal, state/provincial	
	and local regu	nutions.		
		RT INFORMATION		



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U.S. DOT / CA TDG Classification	: Not regulated f	for transportation.	
ICAO/IATA	: Not regulated f	for transportation.	
IMO / IMDG	: Not regulated f	for transportation.	
	15. REGULATO	RY INFORMATIO	N
US Regulations:			
OSHA Status	: Classified as ha	azardous based on co	omponents.
TSCA Status	: All component exempt.	s of this product are	listed on the TSCA inventory or are
US. EPA CERCLA Hazardous	s Substances (40 CFR	. 302)	
Not applicable			
California Proposition 65 SARA Title III Section 313 To		oes not contain a sub	stance listed by California Prop 65.
Chemical Name		CAC No	
	E FUME OR DUST)	CAS-No. 7429-90-5	Weight % 07.05
Canadian Regulations:			
WHMIS Classification	: D2B		
WHMIS Ingredient Dis	closure List		
CAS-No. 7429-90-5			
DSL	: Listed.		
National Inventories:			
Australia AICS	: Listed.		
China IECS	: Listed.		



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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.