PolyOne

MATERIAL SAFETY DATA SHEET TR SILVER 173186

Version Number 1.0 Revision Date 11/29/2012

Page 1 of 7 Print Date 11/29/2012

POLYONE CORPORATION 33587 Walker Road, Avon Lake, 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	:	TR SILVER 173186		
Product code	:	CC10173186		
Chemical Name	:	Mixture		
CAS-No.	:	Mixture		
Product Use	:	Industrial Applications		

Components	CAS-No.	Weight percent
Aluminum	7429-90-5	10 - 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Skin contact, Ingestion			
Acute exposure				
Inhalation	: Resin particles, like other inert materials, can be mechanically irritating.			
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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MATERIAL SAFETY DATA SHEET **TR SILVER 173186**

Version Number 1.0 Revision Date 11/29/2012 Page 2 of 7 Print Date 11/29/2012

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 Class D special powder against metal fire, Dry chemical. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Dust containing aluminum powder can be explosive. Do not use a solid water stream as it may scatter and spread fire. 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.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat



MATERIAL SAFETY DATA SHEET TR SILVER 173186

Version Number 1.0 Page 3 of 7 Print Date 11/29/2012 Revision Date 11/29/2012 only in areas with appropriate exhaust ventilation. Storage Keep containers dry and tightly closed to avoid moisture absorption : and contamination. Keep in a dry, cool place. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION No personal respiratory protective equipment normally required. If Respiratory protection : dusty conditions occur wear appropriate respiratory protection. **Eye/Face Protection** Safety glasses with side-shields : Hand protection : Protective gloves. Refer to equipment supplier to ensure protection. Skin and body protection : Long sleeved clothing Additional Protective Safety shoes : Measures General Hygiene : Handle in accordance with good industrial hygiene and safety Considerations 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)

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MATERIAL SAFETY DATA SHEET **TR SILVER 173186**

Version Number 1.0 Revision Date 11/29/2012 Page 4 of 7 Print Date 11/29/2012

Components	Value	Exposure time	Exposure type	List:
Aluminum	1 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	10 mg/m3	Recommended exposure limit (REL):	Total	NIOSH
	5 mg/m3	Recommended exposure limit (REL):	Respirable.	NIOSH
	5 mg/m3	Recommended exposure limit (REL):	Welding fume or pyrophoric powder. as Al	NIOSH
	15 mg/m3	PEL:	Total dust. as Al	OSHA Z1
	5 mg/m3	PEL:	Respirable dust. as Al	OSHA Z1
15 mg/m		Time Weighted Average (TWA):	Total dust. as Al	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Respirable dust. as Al	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Pyrophoric powder. as Al	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Fume. as Al	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Welding fume.	MX OEL
	10 mg/m3	Time Weighted Average (TWA):	Dust.	MX OEL
	5 mg/m3	Time Weighted Average (TWA):	Pyrophoric powder.	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:Appearance:Colour:Odour:Melting point/range:Boiling Point::Water solubility:

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solid
powder, granular
GREY
very faint
Not determined
not applicable
insoluble

Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pH

Not applicable
Not determined
Not determined
not applicable
not applicable
not applicable

10. STABILITY AND REACTIVITY		
Stability	: The product is stable if stored and handled as prescribed.	
Hazardous Polymerization	: Will not occur.	
Conditions to avoid	: To avoid thermal decomposition, do not overheat. Keep away from oxidizing agents and open flame.	
Incompatible Materials	: Incompatible with acids and bases., Oxidizing agents, Halogenated compounds	

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MATERIAL SAFETY DATA SHEET TR SILVER 173186

Version Number 1.0 Revision Date 11/29/2012

Page 5 of 7 Print Date 11/29/2012

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
7429-90-5	Aluminum	Irritant	Skin, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system.

	12. ECOLOGICAL INFORMATION
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	: no data available
	13. DISPOSAL CONSIDERATIONS
Product	 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. Recycling is preferred when possible. The generator of waste
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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MATERIAL SAFETY DATA SHEET **TR SILVER 173186**

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JS Regulations:					
OSHA Status : Classified as ha	azardous t	based on c	componen	ts.	
TSCA Status : All componen TSCA Inventor		product ar	e listed or	or exem	npt from th
S. EPA CERCLA Hazardous Substances (40 CFR	. 302)				
not applicable					
California Proposition : Not applicable 65					
ARA Title III Section 302 Extremely Hazardous S	ubstance				
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ARA Title III Section 313 Toxic Chemicals: nless specific chemicals are identified under this section Chemical Name ALUMINUM (FUME OR DUST)ALUMINUM (ection, thi	s product	is Not Ap Io.	plicable	under this percent
ARA Title III Section 313 Toxic Chemicals: nless specific chemicals are identified under this so Chemical Name	ection, thi	s product CAS-N	<u>is Not Ap</u> lo.)-5	plicable Weight	under this percent - 30.00
ARA Title III Section 313 Toxic Chemicals: Inless specific chemicals are identified under this so Chemical Name ALUMINUM (FUME OR DUST)ALUMINUM (OR DUST) ZINC COMPOUNDS	ection, thi	s product CAS-N 7429-90	<u>is Not Ap</u> lo.)-5	plicable Weight 10.00 -	under this percent - 30.00
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ARA Title III Section 313 Toxic Chemicals: nless specific chemicals are identified under this section and the chemical Name ALUMINUM (FUME OR DUST)ALUMINUM (OR DUST) ZINC COMPOUNDS anadian Regulations: National Pollutant Release Inventory (NPRI) Chemical Name Aluminum Zinc ferrite brown spinel (C.I. Pigment Yellow	ection, thi (FUME CAS-N 7429-9	s product CAS-N 7429-90 68187-5 10.	is Not Ap lo.)-5 51-9 Weigh percen 10.00 -	plicable Weight 10.00 - 1.00 - t t	under this percent - 30.00 5.00
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POLYONE CORPORATION



MATERIAL SAFETY DATA SHEET TR SILVER 173186

Version Number 1.0 Revision Date 11/29/2012	Page 7 of 7 Print Date <i>11/29/2012</i>
DSL	: All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:	
Australia AICS	: Listed
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 used in combination with any other materials or in any process, unless specified in the text.