PolvOne

MATERIAL SAFETY DATA SHEET ARL SILVER

Version Number 1.1 Revision Date 06/01/2007 Page 1 of 7 Print Date 11/29/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	ARL SILVER
Product code	:	CC10075952
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Aluminum	7429-90-5	10 - 30
Mica	12001-26-2	10 - 30
Titanium dioxide	13463-67-7	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 Ingestion Eyes Skin	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Particulates, like other inert materials can be mechanically irritating. Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.



MATERIAL SAFETY DATA SHEET ARL SILVER

Version Number 1.1 Revision Date 06/01/2007 Page 2 of 7 Print Date 11/29/2011

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 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 see 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	: Class D special powder against metal fire, Dry chemical.
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	: 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. Refer to Section 1 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE



MATERIAL SAFETY DATA SHEET ARL SILVER

Version Number 1.1 Revision Date 06/01/2007		Page 3 of 7 Print Date 11/29/2011
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 and contamination. Keep in a dry, cool place.
8. EXP	OSUR	RE CONTROLS / PERSONAL PROTECTION
Respiratory protection	:	No personal respiratory protective equipment normally required. If 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 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)		

PolyOne

MATERIAL SAFETY DATA SHEET ARL SILVER

Version Number 1.1 Revision Date 06/01/2007

Page 4 of 7 Print Date 11/29/2011

Components	Value	Exposure time	Exposure type	List:
Aluminum	10 mg/m3	Time Weighted Average (TWA):	Dust.	ACGIH
	5 mg/m3	Time Weighted Average (TWA):	Pyrophoric powder. as Al	ACGIH
	15 mg/m3	PEL:	Total dust. as Al	OSHA Z1
	5 mg/m3	PEL:	Respirable dust. as Al	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	Pyrophoric powder.	MX OEL
	10 mg/m3	Time Weighted Average (TWA):	Dust.	MX OEL
Mica	3 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	3 mg/m3	Time Weighted Average (TWA):		MX OEL
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	
FOIII	•
Appearance	:
Color	:
Odour	:
Melting point/range	:
Boiling Point:	:
Water solubility	:

Solid flakes GREY Very faint Not determined Not applicable Insoluble

Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pН

- : Not applicable
- Not determined :
- Not determined : :
 - Not applicable
- Not applicable :
- Not applicable :

10. STABILITY AND REACTIVITY

Stability	
Stability	·

Hazardous Polymerization

Conditions to avoid

products

- Stable.
- Will not occur. :
- : 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
- Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen Hazardous decomposition : (NOx), other hazardous materials, and smoke are all possible.
 - **11. TOXICOLOGICAL INFORMATION**

MATERIAL SAFETY DATA SHEET ARL SILVER

Version Number 1.1 Revision Date 06/01/2007 Page 5 of 7 Print Date 11/29/2011

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.
12001-26-2	Mica	Systemic effects	Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	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.

	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.
Contaminated packaging	: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation



MATERIAL SAFETY DATA SHEET ARL SILVER

ion Number 1.1 sion Date 06/01/2007					Prir	Page 6 nt Date 11/29/
		and disposal in accordar and local regulations.	ce with a	applicable fee	leral, s	tate/provincial
	14	. TRANSPORT INFO	RMATIO	ON		
U.S. DOT Classification	:	Not regulated for transpo	ortation.			
ICAO/IATA (air)	:	Refer to specific regulat	on.			
IMO / IMDG (maritime)	:	Refer to specific regulat	on.			
	15.	REGULATORY INFO	RMAT	ION		
US Regulations:						
OSHA Status	:	Classified as hazardous	based on	components		
TSCA Status	:	All components of this p Inventory.	product a	re listed on or	exem	pt from the TSC
US. EPA CERCLA Hazardo	us Subs	ances (40 CFR 302)				
Not applicable						
California Propositio 65	n :	Not applicable				
SARA Title III Section 302 I	Extreme	y Hazardous Substance				
Unless specific chemicals are	e identif	ed under this section, th	s produc	t is Not App	icable	under this regul
SARA Title III Section 313	Гoxic С	nemicals:				
Unless specific chemicals are Chemical Name	e identif	ed under this section, th	s produc CAS-l		icable Veight	
ALUMINUM (FUME OR	DUST		7429-9			- 30.00
Canadian Regulations:						
National Pollutant Re	lease In					
au 1 1 1 1		CAS-I		Weight 9	6	NPRI ID#
Chemical Name Aluminum		7429-9		10.00 - 3		12

POLYONE CORPORATION



MATERIAL SAFETY DATA SHEET ARL SILVER

Version Number 1.1 Revision Date 06/01/2007 Page 7 of 7 Print Date 11/29/2011

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
7429-90-5	
12001-26-2	

:

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.