

#### MATERIAL SAFETY DATA SHEET

### GOLD

Version Number 1.0 Revision Date 10/02/2002

Product Use

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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	:	GOLD
Product code	:	CC10023825
Chemical Name	:	Mixture
CAS-No.	:	Mixture

: Industrial Applications

## 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Carbon black	1333-86-4	0.1 - 1
Aluminum	7429-90-5	1 - 5
Tin oxide (SnO2)	18282-10-5	1 - 5
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. 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	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eves.</li> </ul>
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.

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#### GOLD Version Number 1.0 Page 3 of 7 Revision Date 10/02/2002 Print Date 11/6/2011 only in areas with appropriate exhaust ventilation. : Keep containers dry and tightly closed to avoid moisture absorption Storage and contamination. Keep in a dry, cool place. 8. EXPOSURE CONTROLS / PERSONAL PROTECTION : No personal respiratory protective equipment normally required. Respiratory protection 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:
Aluminum	10 mg/m3	Time Weighted Average	Dust.	ACGIH
		(TWA):		
	5 mg/m3	Time Weighted Average	Welding fume. as Al	ACGIH
		(TWA):		
Aluminum	15 mg/m3	PEL:	Total dust. as Al	OSHA Z1
	5 mg/m3	PEL:	Respirable dust. as Al	OSHA Z1
Carbon black	3.5 mg/m3	Time Weighted Average	Total dust. as carbon	ACGIH
		(TWA):	black	
Carbon black	3.5 mg/m3	PEL:	Total dust. as carbon	OSHA Z1
			black	
Mica	3 mg/m3	Time Weighted Average	Total dust.	ACGIH
		(TWA):		
Mica	20 mppcf	PEL:	Total dust.	OSHA
Tin oxide (SnO2)	2 mg/m3	Time Weighted Average		ACGIH
		(TWA):		
Titanium dioxide	10 mg/m3	Time Weighted Average	Dust.	ACGIH
		(TWA):		
Titanium dioxide	15 mg/m3	PEL:	Total dust.	OSHA Z1

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

: Solid

Evaporation rate

: Not applicable.

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#### 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.
18282-10-5	Tin oxide (SnO2)	Systemic effects	Respiratory system.
12001-26-2	Mica	Systemic effects	Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	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
18282-10-5	Tin oxide (SnO2)	Oral LD50	> 20 gm/kg	rat

Carcinogenicity:

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

CAS-No. Chemical Name OSHA IARC NTP
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1333-86-4 Carbor	n black	no	2	В		no
IARC Carcinogen Classificatio 1 - The component is carcinoge 2A - The component is probabl 2B - The component is possibly	enic to humans. y carcinogenic to huma / carcinogenic to huma					
NTP Carcinogen Classification 1 - The component is known to 2 - The component is reasonabl	be a human carcinoger					
Additional Health Hazard Inf Carbon black 1333-86-4 Ca response observed in the refer exposure. However, the IARC "There is sufficient evidence is this evaluation, along with the overall evaluation is that "Ca has not been listed as a carcin and Health Administration (C criteria document on carbon hydrocarbon) levels greater th	arcinogenicity: Many renced rat studies is s C evaluation in Monog in experimental anima eir evaluation of inade rbon Black is possibly ogen by the National DSHA). The National black recommends the	pecies specific ar graph Volume 63 als for the carcin equate evidence 6 y carcinogenic to Toxicology Prog Institute of Occ at only carbon b	nd does not 4 5, issued in 2 ogenicity of of carcinoge humans (G ram (NTP) o upational S lack with P.	correlate April 19 Carbon enicity in Froup 2B or the Oe afety an	e to hu 96 con black huma huma b). Car ccupat d Heal	ıman ıcluded ''. Bas ans, IA rbon B tional S lth (NI
	12. ECOLOGICAI	- _ INFORMATIO	)N			
	. Not modily biodo					
Persistence and degradability	: Not readily biode	egradable.				
Persistence and degradability Environmental Toxicity	<ul><li>: Not readily block</li><li>: Chemicals are no of the polymer.</li></ul>	-	e as they are	bound wi	ithin th	ie matri
	: Chemicals are no	t readily available	-			
Environmental Toxicity	<ul><li>Chemicals are no of the polymer.</li><li>Chemicals are no</li></ul>	t readily available t readily available	-			
Environmental Toxicity Bioaccumulation Potential	<ul><li>Chemicals are no of the polymer.</li><li>Chemicals are no of the polymer.</li></ul>	t readily available t readily available e.	e as they are			
Environmental Toxicity Bioaccumulation Potential	<ul> <li>Chemicals are no of the polymer.</li> <li>Chemicals are no of the polymer.</li> <li>No data available</li> </ul>	t readily available t readily available t readily available oplastics the proc oplastics the proc og is preferred to the material has the nsportation and d	e as they are NS luct can be ru disposal or in e responsibil isposal in ac	ecycled. ncinerationity for pre-	Where on. The oper we with	e ne
Environmental Toxicity Bioaccumulation Potential Additional advice	<ul> <li>Chemicals are no of the polymer.</li> <li>Chemicals are no of the polymer.</li> <li>Chemicals are no of the polymer.</li> <li>No data available</li> </ul> 13. DISPOSAL CO <ul> <li>Like most thermore possible, recycling generator of wast classification, tra</li> </ul>	t readily available t readily available t readily available operation and d poplastics the process operation and d l, state/provincial erred when possile ility for proper w ccordance with ap	e as they are <b>NS</b> luct can be re- disposal or in e responsibil isposal in ac and local re ble. The gen aste classific	ecycled. ncineratio ity for pr cordance gulations erator of ation, tra	Where on. The oper we with s.	e ne vaste materia tation



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sion Number 1.0 rision Date 10/02/2002			Print Da	Page 6 o ate 11/6/20
U.S. DOT Classification	: Refer to specif	ic regulation.		
ICAO/IATA	: Refer to specif	ic regulation.		
IMO / IMDG	: Refer to specif	ic regulation.		
	15. REGULATO	RY INFORMATI	ON	
US Regulations:				
OSHA Status	: Classified as h	azardous based on o	components.	
TSCA Status	: All component exempt.	s of this product are	listed on the TSCA inve	ntory or are
US. EPA CERCLA Hazardou	us Substances (40 CFR	302)		
Not applicable				
65 SARA Title III Section 313 T	oxic Chemicals:			
Chemical Nam	ne	CAS-No.	Weight %	
Chemical Nam ALUMINUM	ne (FUME OR DUST)	CAS-No. 7429-90-5	Weight % 04.40	
ALUMINUM	(FUME OR DUST)			
ALUMINUM Canadian Regulations:	(FUME OR DUST)			
ALUMINUM Canadian Regulations: WHMIS Classification	(FUME OR DUST)			
ALUMINUM Canadian Regulations: WHMIS Classification WHMIS Ingredient Di CAS-No. 7429-90-5 12001-26-2	(FUME OR DUST)			
ALUMINUM Canadian Regulations: WHMIS Classification WHMIS Ingredient Di CAS-No. 7429-90-5 12001-26-2 18282-10-5	(FUME OR DUST) n : D2A sclosure List			
ALUMINUM Canadian Regulations: WHMIS Classification WHMIS Ingredient Di CAS-No. 7429-90-5 12001-26-2 18282-10-5 DSL	(FUME OR DUST) n : D2A sclosure List	7429-90-5		



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China IECS	:	Listed.	
Europe EINECS	:	Not determined.	
Japan ENCS	:	Not determined.	
Korea KECI	:	Not determined.	
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.