

**POLYONE CORPORATION****MATERIAL SAFETY DATA SHEET****GEON 87416TAN**Version Number 1.2  
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Print Date 3/18/2014**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012

Telephone : 1 (440) 930-1000 or 1 (866) POLYONE  
Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure  
number or accident).

Product name : GEON 87416TAN  
Product code : VC10002636  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight percent
Manganese antimony titanium brown rutile (C.I. Pigment Yellow 164)	68412-38-4	1 - 5
Calcium stearate	1592-23-0	1 - 5
Calcium carbonate	471-34-1	1 - 5
Rutile, antimony chromium buff	68186-90-3	1 - 5
Titanium dioxide	13463-67-7	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 or processing. 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. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

**POTENTIAL HEALTH EFFECTS****Routes of Exposure:** : Inhalation, Ingestion, Skin contact**Acute exposure**

Inhalation : Resin particles, like other inert materials, can be mechanically irritating.  
Ingestion : May be harmful if swallowed.  
Eyes : Resin particles, like other inert materials, are mechanically irritating to

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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.

**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 seek medical attention.

**5. FIREFIGHTING MEASURES**

Flash point : not applicable

Flammable Limits  
Upper explosion limit : not applicable  
Lower explosion limit : not applicable  
Auto-ignition temperature : Not applicable  
Suitable extinguishing media : Carbon dioxide blanket, Water spray, Dry powder, Foam.

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 : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), 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.

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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 only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.

Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

**8. EXPOSURE 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

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. This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). It is unlikely, under normal working conditions with adequate ventilation, that the exposure limits will be exceeded for residual VCM. However, the user should take the necessary precautions (e.g. mechanical ventilation, local exhaust ventilation, air-monitoring, respiratory protection, etc.) to ensure airborne levels of any vapors including VCM or dusts that may be released during heating or processing are below regulated levels.

Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

Exposure limit(s)

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Components	Value	Exposure time	Exposure type	List:
Manganese antimony titanium brown rutile (C.I. Pigment Yellow 164)	1 mg/m <sup>3</sup>	Recommended exposure limit (REL):	Fume. as Mn	NIOSH
	3 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):	Fume. as Mn	NIOSH
	5 mg/m <sup>3</sup>	Ceiling Limit Value:	as Mn	OSHA Z1
	5 mg/m <sup>3</sup>	Ceiling Limit Value:	as Mn	OSHA Z1A
	0.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m <sup>3</sup>	Recommended exposure limit (REL):	as Sb	NIOSH
	0.5 mg/m <sup>3</sup>	PEL:	as Sb	OSHA Z1
	0.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Sb	OSHA Z1A
	0.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Sb	MX OEL
	Calcium stearate	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):	
Calcium carbonate	5 mg/m <sup>3</sup>	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m <sup>3</sup>	PEL:	Total dust.	OSHA Z1
	5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	15 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):		MX OEL
	20 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):		MX OEL
	5 mg/m <sup>3</sup>	Recommended exposure limit (REL):	Respirable.	NIOSH
Rutile, antimony chromium buff	10 mg/m <sup>3</sup>	Recommended exposure limit (REL):	Total	NIOSH
	0.5 mg/m <sup>3</sup>	Recommended exposure limit (REL):	as Cr	NIOSH
	0.5 mg/m <sup>3</sup>	PEL:	as Cr	OSHA Z1
	0.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m <sup>3</sup>	Recommended exposure limit (REL):	as Sb	NIOSH
	0.5 mg/m <sup>3</sup>	PEL:	as Sb	OSHA Z1
	0.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Sb	OSHA Z1A
	0.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Sb	MX OEL
Titanium dioxide	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):		ACGIH
	15 mg/m <sup>3</sup>	PEL:	Total dust.	OSHA Z1

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	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):	as Ti	MX OEL

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: solid	Evaporation rate	: Not applicable
Appearance	: pellets, powder	Specific Gravity	: Not determined
Colour	: TAN	Bulk density	: Not established
Odour	: very faint	Vapour pressure	: not applicable
Melting point/range	: Not determined	Vapour density	: not applicable
Boiling Point:	: not applicable	pH	: not applicable
Water solubility	: insoluble		

**10. STABILITY AND REACTIVITY**

Stability	: The product is stable if stored and handled as prescribed.
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., Avoid contact with acetal homopolymers and acetal copolymers during processing.
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), other hazardous materials, and smoke are all possible. Prolonged heating (approximately 30 minutes or more) above 392 °F (200 °C) or short term heating at 482 °F (250 °C) may result in product decomposition and evolution of carbon monoxide and hydrogen chloride.

**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
68412-38-4	Manganese antimony titanium brown rutile (C.I. Pigment Yellow 164)	Irritant	Eyes, Skin.
471-34-1	Calcium carbonate	Irritant	Eyes, Skin.

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68186-90-3	Rutile, antimony chromium buff	Irritant	Eyes, Skin, 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
1592-23-0	Calcium stearate	Oral LD50	> 10 gm/kg	rat
471-34-1	Calcium carbonate	Oral LD50Oral LD50Oral LD50	6,450 mg/kg6,450 mg/kg6,450 mg/kg	rat rat mouse

**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 : Adverse ecological impact is not known or expected under normal use.
- Bioaccumulation Potential : no data available
- Additional advice : not applicable

**13. DISPOSAL CONSIDERATIONS**

- Product : Like most thermoplastic plastics 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

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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 : Not regulated for transportation.  
IMO/IMDG (maritime) : Not regulated for transportation.

**15. REGULATORY INFORMATION**

US Regulations:

OSHA Status : Classified as hazardous based on components.  
TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)  
not applicable

California Proposition : Not applicable  
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SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight percent
MANGANESE COMPOUNDS MANGANESE COMPOUNDS ANTIMONY COMPOUNDS	68412-38-4	0.10 - 1.00
CHROMIUM III COMPOUNDS CHROMIUM III COMPOUNDS ANTIMONY COMPOUNDS CHROMIUM COMPOUNDS	68186-90-3	1.00 - 5.00
CHROMIUM III COMPOUNDS CHROMIUM COMPOUNDS	12737-27-8	0.10 - 1.00

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## Canadian Regulations:

## National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight percent	NPRI ID#
Manganese antimony titanium brown rutile (C.I. Pigment Yellow 164)	68412-38-4	0.10 - 1.00	
		0.10 - 1.00	
Rutile, antimony chromium buff	68186-90-3	1.00 - 5.00	
Iron chromite brown spinel	12737-27-8	0.10 - 1.00	

WHMIS Classification : D2A

## WHMIS Ingredient Disclosure List

CAS-No.
68412-38-4
68186-90-3

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

## National Inventories:

Australia AICS : Not determined  
China IECS : Not determined  
Europe EINECS : Listed  
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.