

# MATERIAL SAFETY DATA SHEET

# TAN

Version Number 1.0 Revision Date 04/30/2003 Page 1 of 6 Print Date *11/11/2011* 

# 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	:	TAN
Product code	:	CC10035421
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

## **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. 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

<b>Routes of Exposure:</b>	: 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.
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 seek medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits	
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Autoignition temperature	: Not relevant
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
Unusual Fire/Explosion Hazards	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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Titanium dioxide       10 mg/m3       Time Weighted Average (TWA):       1       AC         Titanium dioxide       15 mg/m3       PEL:       Total dust.       OSH         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       :       Solid       Evaporation rate       :       Not applica         Appearance       :       Pellets       Specific Gravity       :       Not determ         Color       :       TAN       Bulk density       :       Not determ         Odor       :       Very faint       Vapor pressure       :       Not applica         Boiling Point/range       :       Not determined       Vapor density       :       Not applica         Boiling Point:       :       Not applicable       pH       :       Not applica         Boiling Point:       :       Not applicable       pH       :       Not applica         Hazardous Polymerization       :       Stable.       :       Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.	on Date 04/30/2003					Print D	ate 11/11/2
Respiratory protection       : No personal respiratory protective equipment normally required         Eye/Face Protection       : Safety glasses with side-shields.         Hand protection       : Protective gloves.         Skin and body protection       : Long sleeved clothing.         Additional Protective       : Safety shoes.         Measures       : Handle in accordance with good industrial hygiene and safety pr         Considerations       : Wash hands before breaks and at the end of workday.         Engineering measures       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Components       Value       Exposure time       Exposure type       Li         Titanium dioxide       10 mg/m3       Time Weighted Average       AC       (TWA):       Total dust.       OSH         Solid       Evaporation rate       : Not applica         Appearance       : Pellets       Specific Gravity       : Not applica         Boiling point/range       : Not determined       Vapor density       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Boiling Point:       : Not applicable       pH       : Not applicable         Hetar solubility       : Insoluble		aı	nd contamination. K	leep in a d	ry, cool place	2.	
Eye/Face Protection       :       Safety glasses with side-shields.         Hand protection       :       Protective gloves.         Skin and body protection       :       Long sleeved clothing.         Additional Protective       :       Safety shoes.         Measures       :       Handle in accordance with good industrial hygiene and safety pr         Considerations       :       Handle in accordance with good industrial hygiene and safety pr         Considerations       :       Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       :       Exposure time       Exposure type       Li         Titanium dioxide       10 mg/m3       Time Weighted Average       AC         (TWA):       :       Total dust.       OSH         PHYSICAL AND CHEMICAL PROPERTIES         Form       :       Solid       Evaporation rate       :       Not applica         Appearance       :       Pellets       Specific Gravity       :       Not applica         Melting point/range       :       Not determined       Vapor pressure       :       Not applica         Boiling Point:       :       :       Not applicable       pH       :       Not applica	8. E	XPOSURE	CONTROLS / PEF	RSONAL	PROTECTI	ON	
Hand protection       :       Protective gloves.         Skin and body protection       :       Long sleeved clothing.         Additional Protective       :       Safety shoes.         Measures       :       Handle in accordance with good industrial hygiene and safety pr         Considerations       :       Handle in accordance with good industrial hygiene and safety pr         Considerations       :       Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       :       Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       :       :       AC         Titanium dioxide       10 mg/m3       Time Weighted Average (TWA):       :       OSH         Titanium dioxide       15 mg/m3       PEL:       Total dust.       OSH         Solid       Evaporation rate :       Not applica         Appearance       :       Pellets       Specific Gravity ::       Not applica         Color       :       :       Not applicable       pH       :       Not applica         Melting point/range       :       Not determined       Vapor density       :       Not applica         Boiling Point: <td< td=""><td>espiratory protection</td><td>: N</td><td>o personal respirator</td><td>ry protecti</td><td>ve equipment</td><td>t normally r</td><td>equired.</td></td<>	espiratory protection	: N	o personal respirator	ry protecti	ve equipment	t normally r	equired.
Skin and body protection       : Long sleeved clothing.         Additional Protective       : Safety shoes.         Measures       :         General Hygiene       : Handle in accordance with good industrial hygiene and safety pr         Considerations       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Engineering measures       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       :         Components       Value       Exposure time         Exposure limit(s)       :       :         Stanum dioxide       10 mg/m3       Time Weighted Average (TWA):       :         Titanium dioxide       15 mg/m3       PEL:       Total dust.       OSH         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       :       Solid       Evaporation rate       :       Not applica         Appearance       :       Pellets       Specific Gravity       :       Not determ ined         Color       ::       :       Not applicable       pH       :       Not applicable         Boiling point:       :       Not applicable       pH       :       Not applicable         Water solubility	ye/Face Protection	: S	afety glasses with sid	de-shields			
Additional Protective       : Safety shoes.         Measures       : Handle in accordance with good industrial hygiene and safety pr         General Hygiene       : Handle in accordance with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Engineering measures       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Total dust.       OSH         * Order in the machinery.       : Total dust.       OSH         * Order in the machinery.       : Total dust.       OSH         * Order in the machinery.       : Solid       : Exposure type       Li         * Order in the machinery.       : Solid       : Exposure type       Not applica         Appearance       : Pellets       : Specific Gravity       : Not applica         Odor<	and protection	: P	rotective gloves.				
Measures       : Handle in accordance with good industrial hygiene and safety pr         Considerations       :: Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Engineering measures       :: Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Exposure limit(s)       :: Heat only in areas with appropriate exhaust ventilation at machinery.         Exposure limit(s)       :: Meat only in areas with appropriate exhaust ventilation at machinery.         Exposure limit(s)       :: Total dust.         Components       Value       Exposure time         Titanium dioxide       10 mg/m3       Time Weighted Average       AC         (TWA):       : Total dust.       OSH         PHYSICAL AND CHEMICAL PROPERTIES         Form       : Solid       Evaporation rate       : Not applica         Appearance       : Pellets       Specific Gravity       : Not deptlica         Odor       : Very faint       Vapor pressure       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Water solubility       : Insoluble       :       Not applica         Water solubilit	kin and body protection	: L	ong sleeved clothing				
Considerations       Wash hands before breaks and at the end of workday.         Engineering measures       : Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.         Exposure limit(s) <ul> <li>Components</li> <li>Value</li> <li>Exposure time</li> <li>Exposure type</li> <li>Li</li> </ul> <ul> <li>Titanium dioxide</li> <li>10 mg/m3</li> <li>Time Weighted Average</li> <li>(TWA):</li> <li>Total dust.</li> </ul> <ul> <li>9. PHYSICAL AND CHEMICAL PROPERTIES</li> </ul> <ul> <li>Form</li> <li>Solid</li> <li>Evaporation rate</li> <li>Not applica</li> <li>Appearance</li> <li>Pellets</li> <li>Specific Gravity</li> <li>Not establis</li> <li>Odor</li> <li>Yery faint</li> <li>Vapor pressure</li> <li>Not applica</li> </ul> Melting point/range       Not determined       Vapor density       Not applica         Boiling Point:       Not applicable       pH       Not applica         Water solubility       Insoluble       Insoluble       Not applica         Biability       Insoluble       Stable.       Insoluble         Image: Stability       Image: Stable.       Image: Stable.       Image: Stable.		: S	afety shoes.				
appropriate exhaust ventilation at machinery.         Exposure limit(s)         Components       Value       Exposure time       Exposure type       Li         Titanium dioxide       10 mg/m3       Time Weighted Average (TWA):       AC         Titanium dioxide       15 mg/m3       PEL:       Total dust.       OSH         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       :       Solid       Evaporation rate       :       Not applica         Appearance       :       Pellets       Specific Gravity       :       Not determ         Color       :       TAN       Bulk density       :       Not applica         Boiling point/range       :       Not applicable       pH       :       Not applica         Boiling Point:       :       Not applicable       pH       :       Not applica         Water solubility       :       Insoluble       :       Not applica         Height of the cocur.         Conditions to avoid       :       Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.							afety practice.
Components         Value         Exposure time         Exposure type         Li           Titanium dioxide         10 mg/m3         Time Weighted Average (TWA):         AC           Titanium dioxide         15 mg/m3         PEL:         Total dust.         OSH           9. PHYSICAL AND CHEMICAL PROPERTIES           Form : Solid Evaporation rate : Not applica           Appearance         : Pellets         Specific Gravity : Not determ           Color         : TAN         Bulk density         : Not applica           Boiling point/range         : Not determined         Vapor pressure         : Not applica           Boiling Point:         : Not applicable         pH         : Not applica           HABILITY AND REACTIVITY           Stability         : Stable.         Hazardous Polymerization         : Will not occur.           Conditions to avoid         : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.	ngineering measures						Provide
Titanium dioxide       10 mg/m3       Time Weighted Average (TWA):       AC         Titanium dioxide       15 mg/m3       PEL:       Total dust.       OSH         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       :       Solid       Evaporation rate       :       Not applica         Appearance       :       Pellets       Specific Gravity       :       Not determ         Color       :       TAN       Bulk density       :       Not determ         Odor       :       Very faint       Vapor pressure       :       Not applica         Boiling Point/range       :       Not applicable       pH       :       Not applica         Boiling Point:       :       Not applicable       pH       :       Not applica         Boiling Point:       :       Not applicable       pH       :       Not applica         Hazardous Polymerization       :       Stable.       :       Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.	<u>xposure limit(s)</u>						
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Form       : Solid       Evaporation rate       : Not applica         Appearance       : Pellets       Specific Gravity       : Not determ         Color       : TAN       Bulk density       : Not establis         Odor       : Very faint       Vapor pressure       : Not applica         Melting point/range       : Not determined       Vapor density       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Water solubility       : Insoluble       Insoluble       Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insoluble         Insolution cocur.         Conditions to avoid <t< td=""><td>Fitanium dioxide</td><td>15 mg/m3</td><td></td><td></td><td>Total</td><td>dust.</td><td>OSHA Z1</td></t<>	Fitanium dioxide	15 mg/m3			Total	dust.	OSHA Z1
Appearance       : Pellets       Specific Gravity       : Not determ         Color       : TAN       Bulk density       : Not establis         Odor       : Very faint       Vapor pressure       : Not applica         Melting point/range       : Not determined       Vapor density       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Water solubility       : Insoluble       Insoluble		9. PHYSIC	CAL AND CHEMI	CAL PRC	PERTIES		
Appearance       : Pellets       Specific Gravity       : Not determ         Color       : TAN       Bulk density       : Not establis         Odor       : Very faint       Vapor pressure       : Not applica         Melting point/range       : Not determined       Vapor density       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Water solubility       : Insoluble       Insoluble		0.1		Г		NT /	1. 1.1
Color       : TAN       Bulk density       : Not establis         Odor       : Very faint       Vapor pressure       : Not applica         Melting point/range       : Not determined       Vapor density       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Water solubility       : Insoluble							
Odor       : Very faint       Vapor pressure       : Not applica         Melting point/range       : Not determined       Vapor density       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Water solubility       : Insoluble       Insoluble       Insoluble         Image: Stability       : Stable.       Image: Stable.       Image: Stable.         Hazardous Polymerization       : Will not occur.       : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.	11						
Melting point/range       : Not determined       Vapor density       : Not applica         Boiling Point:       : Not applicable       pH       : Not applica         Water solubility       : Insoluble       Insoluble       : Not applica         Io. STABILITY AND REACTIVITY       : Stable.       : Stable.         Hazardous Polymerization       : Will not occur.       : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.							
Boiling Point:       : Not applicable       pH       : Not applica         Water solubility       : Insoluble       10. STABILITY AND REACTIVITY         Stability       : Stable.         Hazardous Polymerization       : Will not occur.         Conditions to avoid       : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.							
Water solubility       : Insoluble         Insoluble         IO. STABILITY AND REACTIVITY         Stability         Stable.         Hazardous Polymerization       : Will not occur.         Conditions to avoid       : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.							
10. STABILITY AND REACTIVITY         Stability       : Stable.         Hazardous Polymerization       : Will not occur.         Conditions to avoid       : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.							
Stability       : Stable.         Hazardous Polymerization       : Will not occur.         Conditions to avoid       : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.	ater solubility	. 111501	ubic				
<ul> <li>Hazardous Polymerization : Will not occur.</li> <li>Conditions to avoid : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.</li> </ul>		10. S	TABILITY AND F	REACTIV	<b>VITY</b>		
Conditions to avoid : Keep away from oxidizing agents and open flame. To avoid the decomposition, do not overheat.	tability	: S	table.				
decomposition, do not overheat.	azardous Polymerization	: W	/ill not occur.				
	onditions to avoid					lame. To a	void thermal
Incompatible Materials : Incompatible with strong acids and oxidizing agents.	compatible Materials	: Ir	acompatible with stre	ong acids	and oxidizing	agents.	



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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
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 NTF	CAS No	Chamical Nama	05117	IADC	NTD
	CAS-NO.	Chemical Name	USHA	IARC	

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 avail of the polymer.	lable as they are bound within the matrix
Bioaccumulation Potential	Chemicals are not readily avail of the polymer.	lable as they are bound within the matrix
Additional advice	No data available.	
	DISPOSAL CONSIDERAT	TIONS
Product	possible, recycling is preferred generator of waste material ha	product can be recycled. Where d to disposal or incineration. The is the responsibility for proper waste nd disposal in accordance with ncial and local regulations.
Contaminated packaging	Recycling is preferred when po	ossible. The generator of waste material



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	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	: Refer to specific regulation.
ICAO/IATA	: Refer to specific regulation.
IMO / IMDG	: Refer to specific regulation.
	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 Hazardou	Substances (40 CFR 302)
Not applicable	
California Proposition 65	: This product does not contain a substance listed by California Prop 65
SARA Title III Section 302 E	tremely Hazardous Substance
Not applicable	
SARA Title III Section 313 To	xic Chemicals:
Not applicable	
Canadian Regulations:	
WHMIS Classification	: D2B
DSL	: All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:	



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Australia AICS	:	Listed.		
China IECS	:	Listed.		
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.