PolvOne

## MATERIAL SAFETY DATA SHEET 030TN2013 MUNSELL T2

Version Number 1.1 Revision Date 02/06/2012

Page 1 of 8 Print Date 2/6/2012

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone <b>Emergency telephone</b>	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	030TN2013 MUNSELL T2
Product code	:	CC10155761
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Quartz	14808-60-7	0.1 - 1
Iron oxide	1309-37-1	1 - 5
Titanium dioxide	13463-67-7	5 - 10
Calcium carbonate	1317-65-3	30 - 60

#### 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

Routes of Exposure: : Inhalation, Ingestion, Skin contact		
Acute exposure		
Inhalation	: Particulates, like other inert materials can be mechanically irritating. Excessive inhalation of product vapors, especially during heating or processing, may be irritating to respiratory system.	
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.	

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# MATERIAL SAFETY DATA SHEET 030TN2013 MUNSELL T2

Version Number 1.1 Revision Date 02/06/2012 Page 2 of 8 Print Date 2/6/2012

<b>Chronic exposure</b> : Refer to Section 11 for Toxicological Information.							
Medical Conditions       : None known.         Aggravated by Exposure:							
	4. FIRST AID MEASURES						
Inhalation	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 symptor persist or in all cases of doubt seek medical advice.	ns					
Eyes	: Rinse immediately with plenty of water, also under the eyelids, f least 15 minutes. If eye irritation persists, seek medical attention						
Skin	: Wash off with soap and plenty of water. If skin irritation persist seek medical attention.	S					
	5. FIRE-FIGHTING MEASURES						
Flash point	: not applicable						
Flammable Limits							
Upper explosion limit	: not applicable						
Lower explosion limit	: not applicable						
Autoignition temperature	: not applicable						
Suitable extinguishing media	: Carbon dioxide blanket, Water spray, Dry powder, Foam.						
Special Fire Fighting	: Fullface self-contained breathing apparatus (SCBA) used in posi	itive					
Procedures	pressure mode should be worn to prevent inhalation of airborne						
	contaminants.						
Unusual Fire/Explosion	: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitroge						
Hazards	(NOx), other hazardous materials, and smoke are all possible. M emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under conditions.						
	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 be allowed to enter drains, water courses or the soil.	d not					
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all materia plastic, cardboard or metal containers for disposal. Refer to Sect						

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# MATERIAL SAFETY DATA SHEET 030TN2013 MUNSELL T2

Version Number 1.1 Revision Date 02/06/2012 Page 3 of 8 Print Date 2/6/2012

		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 and contamination. Keep in a dry, cool place.			
8. EXI	POSU	RE CONTROLS/PERSONAL PROTECTION			
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 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.			

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## MATERIAL SAFETY DATA SHEET 030TN2013 MUNSELL T2

Version Number 1.1 Revision Date 02/06/2012 Page 4 of 8 Print Date 2/6/2012

Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):		MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
Iron oxide	10 mg/m3	PEL:	Fume.	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	as Fe	MX OEL
	10 mg/m3	Short Term Exposure Limit (STEL):	as Fe	MX OEL
	5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
Quartz	0.025 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	0.05 mg/m3	Recommended exposure limit (REL):	Respirable dust.	NIOSH
	0.1 mg/m3	Time Weighted Average (TWA):	Respirable dust.	OSHA Z1A
	0.1 mg/m3	Time Weighted Average (TWA):	Respirable.	Z3
	0.3 mg/m3	Time Weighted Average (TWA):	Total dust.	Z3
	0.1 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):	Total dust.	OSHA Z1A
	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 Appearance Colour Odour Melting point/range Boiling Point: Water solubility

Stability

: Stable

: solid

: pellets

: very faint

: insoluble

: Not determined

: not applicable

: TAN

- Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pН
- : Not applicable Not determined : Not established : : not applicable : not applicable : not applicable

## **10. STABILITY AND REACTIVITY**

## MATERIAL SAFETY DATA SHEET 030TN2013 MUNSELL T2

Version Number 1.1 Revision Date 02/06/2012 Page 5 of 8 Print Date 2/6/2012

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	:	Avoid contact with strong oxidizers. Also, avoid contact with acetal or acetal copolymers and with amine containing materials during processing. At processing conditions, these materials are mutually destructive and involve rapid degradation. Thoroughly purge and mechanically clean processing equipment to avoid even trace quantities of these materials from coming in contact with each other. Prevent cross contamination of feedstocks.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), hydrogen chloride (HCl), 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
14808-60-7	Quartz	Systemic effects	Eyes, Respiratory system.
1309-37-1	Iron oxide	Systemic effects	Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, 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
14808-60-7	Quartz	no	1	no
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.

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# MATERIAL SAFETY DATA SHEET 030TN2013 MUNSELL T2

Version Number 1.1 Revision Date 02/06/2012 Page 6 of 8 Print Date 2/6/2012

NTP Carcinogen Classifications:

- 1 The component is known to be a human carcinogen.
- 2 The component is reasonably anticipated to be a human carcinogen.

#### Additional Health Hazard Information:

Quartz 14808-60-7 This material in its free releasable form may cause respiratory tract irritation. Long-term exposure may cause coughing, chest pain, diminished chest expansion and possibly silicosis, which is a scarring of the lungs.

<ul><li>Not readily biodegradable.</li><li>Chemicals are not readily available as they are bound within the polymer matrix.</li></ul>
polymer matrix.
: Chemicals are not readily available as they are bound within the polymer matrix.
: no data available
13. DISPOSAL CONSIDERATIONS
: 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.
: 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
: Not regulated for transportation.
: Refer to specific regulation.
: Refer to specific regulation.
15. REGULATORY INFORMATION
: Classified as hazardous based on components.
: All components of this product are listed on or exempt from the TSCA Inventory.

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## MATERIAL SAFETY DATA SHEET 030TN2013 MUNSELL T2

Version Number 1.1 Revision Date 02/06/2012 Page 7 of 8 Print Date 2/6/2012

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

California Proposition 65

: WARNING! This product contains a chemical known to the State of California to cause cancer.

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

Ch	emical Name	CAS-No.	Weight percent
ZI	NC COMPOUNDS	68187-51-9	1.00 - 5.00
ZI	NC COMPOUNDS	557-05-1	0.10 - 1.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Zinc ferrite brown spinel (C.I. Pigment Yellow	68187-51-9	1.00 - 5.00	
119)			
Zinc stearate	557-05-1	0.10 - 1.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1309-37-1

:

DSL

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

National Inventories:

Australia AICS

: Not determined

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## MATERIAL SAFETY DATA SHEET 030TN2013 MUNSELL T2

Version Number 1.1 Revision Date 02/06/2012 Page 8 of 8 Print Date 2/6/2012

		16. OTHER INFORMATION	
Philippines PICCS	:	Not determined	
Korea KECI	:	Not determined	
Japan ENCS	:	Not determined	
Europe EINECS	:	Listed	
China IECS	:	Not determined	

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.