### MATERIAL SAFETY DATA SHEET 050WT2023 BR091.7 CMPD

Version Number 1.1 Revision Date 07/16/2013 Page 1 of 8 Print Date 7/17/2013

#### 1. PRODUCT AND COMPANY IDENTIFICATION

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

Telephone : Emergency telephone : number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	050WT2023 BR091.7 CMPD
Product code	:	CC10181041
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Zinc oxide	1314-13-2	1 - 5
Titanium dioxide	13463-67-7	5 - 10

#### **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	: 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 eyes.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.

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# MATERIAL SAFETY DATA SHEET 050WT2023 BR091.7 CMPD

Version Number 1.1 Revision Date 07/16/2013 Page 2 of 8 Print Date 7/17/2013

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 a 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 Lower explosion limit Auto-ignition temperature Suitable extinguishing media	<ul> <li>not applicable</li> <li>not applicable</li> <li>not applicable</li> <li>Carbon dioxide blanket, Water spray, Dry powder, Foam.</li> </ul>
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	<ul> <li>Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.</li> </ul>
Environmental precautions	: Should not be released into the environment. The product should no 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.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

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## MATERIAL SAFETY DATA SHEET 050WT2023 BR091.7 CMPD

Version Number 1.1 Revision Date 07/16/2013 Page 3 of 8 Print Date 7/17/2013

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	: N	to personal respiratory protective equipment normally required.
Eye/Face Protection	: S	afety glasses with side-shields
Hand protection	: P	Protective gloves
Skin and body protection	: L	ong sleeved clothing
Additional Protective Measures	: S	afety shoes
General Hygiene Considerations		Iandle in accordance with good industrial hygiene and safety ractice. Wash hands before breaks and at the end of workday.
Engineering measures		leat only in areas with appropriate exhaust ventilation. Provide ppropriate exhaust ventilation at machinery.
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Exposure limit(s)

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## MATERIAL SAFETY DATA SHEET 050WT2023 BR091.7 CMPD

Version Number 1.1 Revision Date 07/16/2013 Page 4 of 8 Print Date 7/17/2013

Components	Value	Exposure time	Exposure type	List:
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
Zinc oxide	2 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	10 mg/m3	Short Term Exposure Limit (STEL):	Respirable fraction.	ACGIH
	5 mg/m3	Recommended exposure limit (REL):	Fume.	NIOSH
	5 mg/m3	Recommended exposure limit (REL):	Dust.	NIOSH
	15 mg/m3	Ceiling Limit Value and Time Period (if specified):	Dust.	NIOSH
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	NIOSH
	5 mg/m3	PEL:	Fume.	OSHA Z1
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	Fume.	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Fume.	MX OEL
	10 mg/m3	Time Weighted Average (TWA):	Dust.	MX OEL
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	MX OEL

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility

: solid
: pellets
: WHITE
: very faint
: Not determined
: not applicable
: insoluble

Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density pH Not applicable
Not determined
Not established
not applicable
not applicable
not applicable

## MATERIAL SAFETY DATA SHEET 050WT2023 BR091.7 CMPD

Version Number 1.1 Revision Date 07/16/2013

Page 5 of 8 Print Date 7/17/2013

	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.	
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
1314-13-2	Zinc oxide	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
1314-13-2	Zinc oxide	LC50	2500 mg/m3	mouse
		LC50		mouse
		Oral LD50	7,950 mg/kg	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.

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# MATERIAL SAFETY DATA SHEET 050WT2023 BR091.7 CMPD

Version Number 1.1 Revision Date 07/16/2013 Page 6 of 8 Print Date 7/17/2013

	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	: 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 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	: Refer to specific regulation.
IMO/IMDG (maritime)	: 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 Hazardous	Substances (40 CFR 302)
not applicable	

## MATERIAL SAFETY DATA SHEET 050WT2023 BR091.7 CMPD

Version Number 1.1 Revision Date 07/16/2013 Page 7 of 8 Print Date 7/17/2013

California Proposition : Not applicable 65

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 regulationChemical NameCAS-No.Weight percentZINC COMPOUNDS1314-13-21.00 - 5.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)			
Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Zinc oxide	1314-13-2	1.00 - 5.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
1314-13-2	

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	:	Not determined
Philippines PICCS	:	Not determined

:

#### **16. OTHER INFORMATION**

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## MATERIAL SAFETY DATA SHEET 050WT2023 BR091.7 CMPD

Version Number 1.1 Revision Date 07/16/2013 Page 8 of 8 Print Date 7/17/2013

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.