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Version Number 1.0 Revision Date 06/23/2015 Page 1 of 14 Print Date 06/24/2015

## SAFETY DATA SHEET

### WHITE LM CC-4

Section 1. Identification	n	
GHS product identifier	:	WHITE LM CC-4
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10218532
Product type	:	solid
Relevant identified uses of the subst	tance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure
(with hours of operation)		or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire,
		exposure or accident).

## Section 2. Hazards identification

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. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.

#### GHS label elements



Version Number 1.0 Revision Date 06/23/2015

Page 2 of 14 Print Date 06/24/2015

Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

## Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10218532

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	30 - 60	13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the : upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.



Version Number 1.0	Page 3 of 14
Revision Date 06/23/2015	Print Date 06/24/2015

Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.		
Over-exposure signs/symptoms				
Eye contact	:	No specific data.		
Inhalation	:	No specific data.		
Skin contact	:	No specific data.		
Ingestion	:	No specific data.		
Indication of immediate medical attention and special treatment needed, if necessary				

Notes to physician Specific treatments	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> .
Unsuitable extinguishing media	:	None known.

### POLYONE CORPORATION

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## SAFETY DATA SHEET WHITE LM CC-4

Version Number 1.0 Revision Date 06/23/2015 Page 4 of 14 Print Date 06/24/2015

Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containmer	nt ar	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage



Version Number 1.0 Revision Date 06/23/2015

## Page 5 of 14 Print Date 06/24/2015

### **Precautions for safe handling**

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).	
Advice on general occupational	:	Eating, drinking and smoking should be prohibited in areas where this	
hygiene		material is handled, stored and processed. Workers should wash and face before eating, drinking and smoking. Remove contamir clothing and protective equipment before entering eating areas. S also Section 8 for additional information on hygiene measures.	
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.	

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Titanium dioxide	OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3
Appropriate engineering controls Environmental exposure controls	<ul> <li>Good general ventilation should be sufficient to control worker exposure to airborne contaminants.</li> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</li> </ul>
Individual protection measures	

#### Individual protection measures

### POLYONE CORPORATION



# SAFETY DATA SHEET WHITE LM CC-4

Version Number 1.0	Page 6 of 14
Revision Date 06/23/2015	Print Date 06/24/2015

Hygiene measures Eye/face protection	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### **Appearance**

Physical state	:	solid [Pellets.]
Color	:	WHITE
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.

#### POLYONE CORPORATION



# SAFETY DATA SHEET WHITE LM CC-4

Version Number 1.0 Revision Date 06/23/2015 Page 7 of 14 Print Date 06/24/2015

Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 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.

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h



## Version Number 1.0 Revision Date 06/23/2015

## Page 8 of 14 Print Date 06/24/2015

	LD50 Dermal	Rabbit	> 5,000 mg/kg	-		
Conclusion/Summary	: M	ixture.Not fully	tested.			
Irritation/Corrosion						
Conclusion/Summary Skin Eyes Respiratory	<ul> <li>Mixture.Not fully tested.</li> <li>Mixture.Not fully tested.</li> <li>Mixture.Not fully tested.</li> </ul>					
<b>Sensitization</b>						
Conclusion/Summary Skin Respiratory	<ul><li>Mixture.Not fully tested.</li><li>Mixture.Not fully tested.</li></ul>					
<b>Mutagenicity</b>						
Conclusion/Summary	<b>:</b> M	ixture.Not fully	tested.			
<b>Carcinogenicity</b>						
Conclusion/Summary <u>Classification</u>	: M	ixture.Not fully	tested.			
Product/ingredient name	OSHA	IARC	NTP			
Titanium dioxide		2B				
<u>Reproductive toxicity</u> Conclusion/Summary						
<b>Teratogenicity</b>						
Conclusion/Summary : Mixture.Not fully tested.						
Specific target organ toxicity (single exposure) Not available.						
Specific target organ toxicity Not available.	y (repeated expo	osure)				
Aspiration hazard Not available.						



Version Number 1.0 Revision Date 06/23/2015 Page 9 of 14 Print Date 06/24/2015

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical, cl	hemi	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion	::	No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects and a	also c	chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	:::::::::::::::::::::::::::::::::::::::	No known significant effects or critical hazards. No known significant effects or critical hazards.
Numerical measures of toxicity		
Acute toxicity estimates		

Not available.



Version Number 1.0 Revision Date 06/23/2015 Page 10 of 14 Print Date 06/24/2015

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure		
Titanium dioxide					
	Acute LC50 > 1,000,000 μg/l	Fish - Mummichog	96 h		
	Marine water				
	Acute LC50 > 1,000 mg/l Fresh water	Fish - Fathead minnow	96 h		
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
WHITE LM CC-4					
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available	as they are bound within the	e polymer matrix.		
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.				
Persistence and degradability	<u>v</u>				
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.				
Conclusion/Summary	: Chemicals are not readi polymer matrix.	: Chemicals are not readily available as they are bound within the polymer matrix.			

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

### Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC)		

10/14

Version Number 1.0 Revision Date 06/23/2015

### Page 11 of 14 Print Date 06/24/2015

Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

## Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

## Section 15. Regulatory information

U.S. Federal regulations	<ul> <li>United States - TSCA 12(b) - Chemical export notification: None of the components are listed.</li> <li>United States - TSCA 4(a) - Final Test Rules: Not listed</li> <li>United States - TSCA 4(a) - ITC Priority list: Not listed</li> <li>United States - TSCA 4(a) - Proposed test rules: Not listed</li> </ul>
	United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed
	<b>United States - TSCA 5(e) - Substances consent order:</b> Not

<u>PolyOne</u>

Version Number 1.0	Page 12 of 14
Revision Date 06/23/2015	Print Date 06/24/2015

		determined United States - TSCA 8(a) - Pred (PAIR): Not listed United States - TSCA 8(c) - Sign Not listed United States - TSCA 8(d) - Hea United States - TSCA 6 - Propos	emical risk rules: Not listed xin/Furane precusor: Not listed emical Data Reporting (CDR): Not liminary assessment report nificant adverse reaction (SAR): alth and safety studies: Not listed sed risk management: Not listed r act (CWA) section 307 - Priority
		release prevention - Flammable	ed ct (CAA) section 112 - Accidental substances: Not listed ct (CAA) section 112 - Accidental ances: Not listed
Clean Air Act Section 112(b)	:	Not listed	
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I Substances	:	Not listed	
Clean Air Act Section 602 Class II Substances	:	Not listed	
<b>DEA List I Chemicals (Precursor</b>	:	Not listed	
Chemicals) DEA List II Chemicals (Essential Chemicals)	:	Not listed	
US. EPA CERCLA Hazardous Subs	stanc	es (40 CFR 302)	
not applicable SARA 311/312			
Classification	:	Not applicable.	
Composition/information on ingredients			
Name	%		Classification



Version Number 1.0 Revision Date 06/23/2015

## Page 13 of 14 Print Date 06/24/2015

Titanium dioxide	30 - 60	СН

### SARA 313

	Product name	CAS number	%
Form R - Reporting	Copper hydroxide phosphate	12158-74-6	10 - 30
requirements	(Cu2(OH)(PO4))		
Supplier notification	Copper hydroxide phosphate	12158-74-6	10 - 30
	(Cu2(OH)(PO4))		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations			
Massachusetts	:	The following components are listed:	
		Titanium dioxide	
NT X7 1		Silica, amorphous	
New York	:	None of the components are listed.	
New Jersey	:	The following components are listed: Titanium dioxide	
Donnaulyonia		Copper hydroxide phosphate (Cu2(OH)(PO4)) The following components are listed:	
Pennsylvania	:	Titanium dioxide	
		Copper hydroxide phosphate (Cu2(OH)(PO4))	
		Silica, amorphous	
		Aluminum hydroxide	
<u>California Prop. 65</u> WARNING: This product contains a chemical known to the State of California to cause cancer.			
-			
United States inventory (TSCA 8b)	:	All components are listed or exempted.	
Canada inventory	:	At least one component is not listed in DSL but all such components are listed in NDSL.	
International regulations			
International lists	:	Australia inventory (AICS): Not determined.	
	•	<b>Taiwan inventory (CSNN):</b> All components are listed or exempted.	
		Malaysia Inventory (EHS Register): Not determined.	
		<b>EINECS:</b> All components are listed or exempted.	
13/14			

Version Number 1.0 Revision Date 06/23/2015 Page 14 of 14 Print Date 06/24/2015

Japan inventory: Not determined. China inventory (IECSC): All components are listed or exempted. Korea inventory: All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined.

Chemical Weapons Convention List Schedule I Chemicals Chemical Weapons Convention List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals Not listed

:

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: Not listed

Not listed

hemicals

## Section 16. Other information

History		
Date of printing	:	06/24/2015
Date of issue/Date of revision	:	06/23/2015
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate
·		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL $73/78$ = International Convention for the Prevention of Pollution
		From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		UN = United Nations
References	:	Not available.

#### Notice to reader

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To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.