

Version Number 1.0 Revision Date 10/02/2015 Page 1 of 14 Print Date 10/03/2015

SAFETY DATA SHEET

XDR13302311C EPIC PROMOTIONAL WHITE

Section 1. Identification	n	
GHS product identifier	:	XDR13302311C EPIC PROMOTIONAL WHITE
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	FO20036358
Product type	:	solid
<u>Relevant identified uses of the subs</u> Product use	tance :	e or mixture and uses advised against 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 (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure 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 10/02/2015

Page 2 of 14 Print Date 10/03/2015

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	:	FO20036358

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	10 - 30	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 10/02/2015	Print Date 10/03/2015

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 at	tentio	on 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 ₂ .
Unsuitable extinguishing media	:	None known.



Version Number 1.0 Revision Date 10/02/2015

Page 4 of 14 Print Date 10/03/2015

Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	May emit Hydrogen Chloride (HCl). Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds 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 containme	ent ai	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.



Version Number 1.0 Revision Date 10/02/2015 Page 5 of 14 Print Date 10/03/2015

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See 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	
	NIOSH REL (1994-06-01)	
	ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3	
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	
Environmental exposure controls		
	environmental protection legislation. In some cases, fume scrubbers,	
	filters or engineering modifications to the process equipment will be	
	5/14	



Version Number 1.0 Revision Date 10/02/2015 Page 6 of 14 Print Date 10/03/2015

	necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures	: 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.
Eye/face protection	: 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 [Paste.]
Color	:	WHITE
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.



Version Number 1.0 Revision Date 10/02/2015

Page 7 of 14 Print Date 10/03/2015

	Not available.
	Not available.
•	
:	Not available.
:	Not available.
:	Not available.
:	Lower: Not available.
	Upper: Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	insoluble in water.
:	Not available.
:	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	:	Avoid contact with acetal homopolymers and acetyl homopolymers during processing.
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



Version Number 1.0 Revision Date 10/02/2015 Page 8 of 14 Print Date 10/03/2015

Product/ingredient name	Result	Species		Dose	Exposure
Titanium dioxide	•	· ·		·	
	LC50 Inhalation			6.82 Mg/l	4 h
	LD50 Dermal	Rabbit		> 5,000 mg/kg	-
Conclusion/Summary	: Mixt	ure.Not fully t	ested.		
Irritation/Corrosion					
Conclusion/Summary					
Skin		ure.Not fully t			
Eyes		ure.Not fully t			
Respiratory	: Mixt	ure.Not fully t	ested.		
Sensitization					
Conclusion/Summary					
Skin		ure.Not fully t			
Respiratory	: Mixt	ure.Not fully t	ested.		
Mutagenicity					
Conclusion/Summary	: Mixt	ure.Not fully t	ested.		
Carcinogenicity					
Conclusion/Summary <u>Classification</u>	: Mixt	ure.Not fully t	ested.		
Product/ingredient	OSHA I	ARC	NTP		
name		me	1111		
Titanium dioxide	2	2B			
<u>Reproductive toxicity</u>					
Conclusion/Summary	: Mixt	ure.Not fully t	ested.		
Teratogenicity					
Conclusion/Summary	: Mixt	ure.Not fully t	ested.		
Specific target organ toxicit Not available.	ty (single exposure)	<u>!</u>			
Specific target organ toxicit Not available.	ty (repeated exposu	ure)			



Version Number 1.0 Revision Date 10/02/2015 Page 9 of 14 Print Date 10/03/2015

Aspiration hazard	
Not available.	

Information on the likely routes of : Not available. exposure

Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

:	Not available. Not available.
:	Not available. Not available.
:	Mixture.Not fully tested.
:	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity



Version Number 1.0 Revision Date 10/02/2015 Page 10 of 14 Print Date 10/03/2015

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure			
Titanium dioxide						
	Acute LC50 > 1,000,000 μg/l	Fish - Fish	96 h			
	Marine water					
	Acute LC50 > 1,000 mg/l Fresh	Fish - Fish	96 h			
	water					
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Daphnia				
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Daphnia				
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Daphnia				
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Daphnia				
	Acute EC50 35.306 mg/l Fresh	Aquatic invertebrates.	48 h			
	water	Daphnia				
	Acute LC50 3 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Crustacean Order				
	Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Crustacean Order				
	Acute LC50 3.6 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Crustacean Order				
	Acute LC50 11 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Crustacean Order				
	Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates.	48 h			
		Crustacean Order				
XDR13302311C EPIC PROM	10TIONAL WHITE					
Remarks - Acute - Aquatic	Chemicals are not readily available a	s they are bound within the	e polymer matrix.			
invertebrates.:						
Conclusion/Summary	: Chemicals are not readily available as they are bound within the					
	polymer matrix.					

Persistence and degradability



Version Number 1.0	Page 11 of 14
Revision Date 10/02/2015	Print Date 10/03/2015

Conclusion/Summary	:	Chemicals are not readily available as they are bound within the polymer matrix.
Conclusion/Summary	:	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

<u>Mobility in soil</u>

Soil/water partition coefficient	:	Not available.
(KOC)		No ha sum significant offerte or oritical bounds
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

11/14		
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
U.S. DOT Classification	:	Not regulated for transportation.



Version Number 1.0 Revision Date 10/02/2015 Page 12 of 14 Print Date 10/03/2015

Section 15. Regulatory information

United States Department of commerce Drecourser chemicals	U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed 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 United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Vinyl chloride monomer United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - Department of commerce - Precursor chemical:
	Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
	Clean Air Act Section 602 Class I Substances	:	Not listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I : Not listed	Clean Air Act Section 602 Class II Substances	:	Not listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I : Not listed Substances Clean Air Act Section 602 Class II : Not listed	DEA List I Chemicals (Precursor Chemicals)	:	Not listed



Version Number 1.0 Revision Date 10/02/2015

Page 13 of 14 Print Date 10/03/2015

DEA List II Chemicals (Essential Not listed : **Chemicals**)

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable. :

Composition/information on ingredients

Name	%	Classification
Titanium dioxide	10 - 30	СН

SARA 313

Not applicable.

Massachusetts : The following components are listed: Titanium dioxide Silica, amorphous New York : None of the components are listed. New Jersey : The following components are listed.				
New York Silica, amorphous New Jersey None of the components are listed. The following components are listed:				
New York:None of the components are listed.New Jersey:The following components are listed:				
Titanium dioxide Ethene, chloro-, homopolymer				
Pennsylvania : The following components are listed:				
Titanium dioxide				
Silica, amorphous				
Sinca, anoiphous				
California Prop. 65 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 : All components are listed or exempted.				
International regulations				
International lists: Australia inventory (AICS): Not determined. Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined. EINECS: All components are listed or exempted.				
13/14				



Version Number 1.0 Revision Date 10/02/2015 Page 14 of 14 Print Date 10/03/2015

Japan inventory: Not determined. China inventory (IECSC): All components are listed or exempted. Korea inventory: Not determined. 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
- Not listed
- **on** : Not listed

:

Section 16. Other information

<u>History</u>		
Date of printing	:	10/03/2015
Date of issue/Date of revision	:	10/02/2015
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

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.