ne.

Version Number 1.0 Revision Date 05/12/2014

Page 1 of 15 Print Date 05/23/2014

SAFETY DATA SHEET

UV YELLOW 2 ABS

Section 1. Identification			
GHS product identifier Chemical name CAS number Other means of identification Product type		UV YELLOW 2 ABS Mixture Mixture CC10198738 solid	
Relevant identified uses of the substance or mixture and uses advised against			
Product use Supplier's details	:	Industrial applications. Plastics. POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012	
Emergency telephone number (with hours of operation)	:	1 (440) 930-1000 or 1 (866) POLYONE 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 MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
Hazard statements	:	No known significant effects or critical hazards.



Version Number 1.0 Revision Date 05/12/2014 Page 2 of 15 Print Date 05/23/2014

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	:	CC10198738

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	10 - 30	13463-67-7
2,4,8,10-Tetraoxa-3,9-diphosphaspiro[5.5]undecane, 3,9-bis[2,4-bis(1,1-dimethylethyl)phenoxy]-	1 - 5	26741-53-7

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 Revision Date 05/12/2014	Page 3 of 15 Print Date 05/23/2014
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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, act	ute and delayed
Potential acute health effects	
Eye contact Inhalation Skin contact	 No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards.
Ingestion	 No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/symptoms	

Eye contact Inhalation : No specific data.

Lyc contact	· No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate medic	al attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: 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



Version Number 1.0 Revision Date 05/12/2014 Page 4 of 15 Print Date 05/23/2014

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known.
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 nitrogen oxides 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 containme	ent a	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
4/15		

ne

Version Number 1.0 Revision Date 05/12/2014

Page 5 of 15 Print Date 05/23/2014

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

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.

POLYONE CORPORATION



SAFETY DATA SHEET UV YELLOW 2 ABS

Version Number 1.0 Revision Date 05/12/2014		Page 6 of 15 Print Date 05/23/2014
Environmental exposure controls	:	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.
Individual protection measures		
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	: YELLOW
Odor	: Faint odor.

POLYONE CORPORATION



SAFETY DATA SHEET UV YELLOW 2 ABS

Version Number 1.0 Revision Date 05/12/2014 Page 7 of 15 Print Date 05/23/2014

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.
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.Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information



Version Number 1.0 Revision Date 05/12/2014 Page 8 of 15 Print Date 05/23/2014

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
2,4,8,10-Tetraoxa-3,9-diphosp	haspiro[5.5]undecan	e, 3,9-bis[2,4-bis(1,1-d	limethylethyl)phenoxy	-
	LD50 Oral	Rat	5,580 mg/kg	-

Conclusion/Summary

: Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,8,10-Tetraoxa-3,9-	Skin - Severe	Rabbit			-
diphosphaspiro[5.5]undecan	irritant				
e, 3,9-bis[2,4-bis(1,1-					
dimethylethyl)phenoxy]-					
Conclusion/Summary					
Skin		ixture.Not f			
Eyes		ixture.Not fi			
Respiratory	: M	ixture.Not fi	ully tested.		
Sensitization					
Conclusion/Summary					
Skin		ixture.Not f			
Respiratory	: M	ixture.Not f	ully tested.		
<u>Mutagenicity</u>					
Conclusion/Summary	: M	ixture.Not f	ully tested.		
Carcinogenicity					
Conclusion/Summary Classification	: M	ixture.Not f	ully tested.		
Product/ingredient name	OSHA	Ι	ARC	NT	Р
Titanium dioxide		2	2B		
<u>Reproductive toxicity</u>	·				
Conclusion/Summary	: M	ixture.Not f	ully tested.		

<u>PolyOne</u>.

Version Number 1.0 Revision Date 05/12/2014 Page 9 of 15 Print Date 05/23/2014

<u>Teratogenicity</u>		
Conclusion/Summary	:	Mixture.Not fully tested.
Specific target organ toxicity (single Not available.	e exp	osure)
Specific target organ toxicity (repea Not available.	ited e	exposure)
Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation	:	No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical, ch	nemio	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	hronic 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		



Version Number 1.0 Revision Date 05/12/2014

Page 10 of 15 Print Date 05/23/2014

Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity Developmental effects Fertility effects	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure	
UV YELLOW 2 ABS			· -	
Remarks - Acute - Aquatic	Chemicals are not readi	ily available as they are bound wit	hin the polymer matrix.	
invertebrates.:				
Conclusion/Summary		: Chemicals are not readily available as they are bound within the polymer matrix.		
Persistence and degradability	<u>7</u>			
Conclusion/Summary	: Chemicals polymer m	are not readily available as they a atrix.	re bound within the	
Conclusion/Summary	: Chemicals	are not readily available as they a	re bound within the	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	high

Mobility in soil

Soil/water partition coefficient : Not available.

10/15



Version Number 1.0 Revision Date 05/12/2014

Page 11 of 15 Print Date 05/23/2014

(KOC) 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	:	Consult mode specific transport rules
IMO/IMDG (maritime)	:	Consult mode specific transport rules
Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

Section 15. Regulatory information

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) - ITC Priority list: Not listed
		United States - TSCA 4(a) - Proposed test rules: Not listed



Version Number 1.0	Page 12 of 15
Revision Date 05/12/2014	Print Date 05/23/2014

United S	tates - TSCA 4(f) - Priority risk review: Not listed
United S	tates - TSCA 5(a)2 - Final significant new use rules: Not
listed	
United S	tates - TSCA 5(a)2 - Proposed significant new use rules:
Not liste	1
United S	tates - TSCA 5(e) - Substances consent order: Not listed
United S	tates - TSCA 6 - Final risk management: Not listed
United S	tates - TSCA 6 - Proposed risk management: Not listed
United S	tates - TSCA 8(a) - Chemical risk rules: Not listed
United S	tates - TSCA 8(a) - Dioxin/Furane precusor: Not listed
United S	tates - TSCA 8(a) - Chemical Data Reporting (CDR): N
determin	ed
United S	tates - TSCA 8(a) - Preliminary assessment report
(PAIR):	Not listed
United S	tates - TSCA 8(c) - Significant adverse reaction (SAR):
Not liste	1
United S	tates - TSCA 8(d) - Health and safety studies: Not listed
United S	tates - EPA Clean water act (CWA) section 307 - Priorit
pollutan	ts: Not listed
United S	tates - EPA Clean water act (CWA) section 311 -
Hazardo	us substances: Not listed
United S	tates - EPA Clean air act (CAA) section 112 - Accidental
release p	revention - Flammable substances: Not listed
United S	tates - EPA Clean air act (CAA) section 112 - Accidental
	revention - Toxic substances: Not listed
United S	tates - Department of commerce - Precursor chemical:
Not liste	-

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor	:	Not listed
Chemicals) DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

12/15



Version Number 1.0 Revision Date 05/12/2014 Page 13 of 15 Print Date 05/23/2014

Composition/information on ingredients

Name	%	Classification
Titanium dioxide	10 - 30	СН
2,4,8,10-Tetraoxa-3,9-	1 - 5	AH
diphosphaspiro[5.5]undecane, 3,9-		
bis[2,4-bis(1,1-		
dimethylethyl)phenoxy]-		

SARA 313

	Product name	CAS number	%
Form R - Reporting	Rutile, antimony chromium	68186-90-3	10 - 20
requirements	buff		
Supplier notification Rutile, antimony chromium		68186-90-3	10 - 20
	buff		

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.

Massachusetts : The following components are listed: Titanium dioxide Number of the second			
New York : None of the components are listed.			
New York:None of the components are listed.New Jersey:The following components are listed:			
2-Propenenitrile, polymer with Ethenylbenzene			
Titanium dioxide			
Pennsylvania : The following components are listed: Titanium dioxide			
i italiulii dioxide			
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 : At least one component is not listed in DSL but all such components are listed in NDSL.			
International regulations			
International lists : Australia inventory (AICS): All components are listed or exempte Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined.	1.		
13/15			

Version Number 1.0 Revision Date 05/12/2014 Page 14 of 15 Print Date 05/23/2014

EINECS: Please contact your supplier for information on the inventory status of this material.
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): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Not listed

Chemical Weapons Convention List Schedule I Chemicals Chemical Weapons Convention List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals

Section 16. Other information

History		
Date of printing	:	05/23/2014
Date of issue/Date of revision	:	05/12/2014
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.

Not listed

Not listed

:

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 POLYONE CORPORATION



SAFETY DATA SHEET UV YELLOW 2 ABS

Version Number 1.0 Revision Date 05/12/2014 Page 15 of 15 Print Date 05/23/2014

materials or in any process, unless specified in the text.