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SAFETY DATA SHEET

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Section 1. Identification	on	
GHS product identifier		BRIGHT BLUE
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification		CC10108350
Product type	-	solid
• •		
Relevant identified uses of the subs	stance	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 (with hours of operation)	:	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		
Signal word	:	No signal word.
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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.
		Not available.

Section 3. Composition/information on ingredients

:

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10108350

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium oxide	5 - 10	13463-67-7
Decanedioic acid, 1,10-bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	1 - 3	52829-07-9
	-	
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)-	1 - 3	25973-55-1
	1 5	20070 00 1

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

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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.
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, acute and delayed

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.	
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	:	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)

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Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$. 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 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 :	s u s I o	No action shall be taken involving any personal risk or without uitable training. Evacuate surrounding areas. Keep unnecessary and improtected personnel from entering. Do not touch or walk through pilled material. Put on appropriate personal protective equipment. f specialized 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 :	v p	Avoid dispersal of spilled material and runoff and contact with soil, vaterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill :	pl	ove containers from spill area. Vacuum or sweep up material and ace in a designated, labeled waste container. Dispose of via a censed waste disposal contractor.
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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

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

:

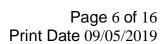
Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium oxide	OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 10 mg/m3
Decanedioic acid, 1,10-bis(2,2,6,6- tetramethyl-4-piperidinyl) ester	None.

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Phenol, 2-(2H-benzotriazol-2-yl)-4,6- bis(1,1-dimethylpropyl)-		None.
Appropriate engineering controls :	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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 :	:	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 :	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties



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Appearance

Physical state	:	solid [Pellets.]
Color	:	ORANGE
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.
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.



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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	
Remarks - Oral:	No applicable toxic	city data			
Remarks - Inhalation:	No applicable toxic	city data			
Remarks - Dermal:	No applicable toxic	city data			
Remarks - Oral:	No applicable toxic	No applicable toxicity data			
Remarks - Inhalation:	No applicable toxic	No applicable toxicity data			
Remarks - Dermal:	No applicable toxicity data				
Titanium oxide					
Remarks - Oral:	No applicable toxic	No applicable toxicity data			
	LC50 Inhalation	LC50 Inhalation Rat - Male 6.82 Mg/l 4 h			
	LD50 Dermal Rabbit > 5,000 mg/kg -				
Conclusion/Summary : Mixture.Not fully tested.					

Conclusion/Summary

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium oxide	Skin - Mild	Human		72 hrs	-
	irritant				
Conclusion/Summary					
Skin		lixture.Not ful			
Eyes		lixture.Not ful	•		
Respiratory	: M	lixture.Not ful	ly tested.		
Sensitization					
Conclusion/Summary					
Skin		lixture.Not ful	•		
Respiratory	: M	lixture.Not ful	ly tested.		
Mutagenicity					
Conclusion/Summary	: M	lixture.Not ful	ly tested.		
Carcinogenicity					



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Conclusion/Summary Mixture.Not fully tested. :

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium oxide	-	2B	-

Reproductive toxicity

Conclusion/Summary Mixture.Not fully tested. :

:

Teratogenicity

Conclusion/Summary

Mixture.Not fully tested.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Phenol, 2-(2H-benzotriazol-2-yl)-	Category 2	oral	kidneys
4,6-bis(1,1-dimethylpropyl)-			liver

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation	:	No known significant effects or critical hazards. 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.

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Delayed and immediate effects as well as 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 Potential chronic health effects	:	Not available. Not available.
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.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Decanedioic acid, 1,10-bis(2,2	,6,6-tetramethyl-4-piperidinyl) ester		
Remarks - Acute - Fish:	No applicable toxicity data		
	Acute EC50 8.6 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			



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	1				
Remarks - Chronic - Fish:	No applicable toxicity data				
Remarks - Chronic -	No applicable toxicity data				
Aquatic invertebrates.:					
Phenol, 2-(2H-benzotriazol-2-	yl)-4,6-bis(1,1-dimethylpropyl)-				
Remarks - Acute - Fish:	No applicable toxicity data				
Remarks - Acute - Aquatic	No applicable toxicity data				
invertebrates.:					
Remarks - Acute - Aquatic	No applicable toxicity data				
plants:					
Remarks - Chronic - Fish:	No applicable toxicity data				
Remarks - Chronic -	No applicable toxicity data				
Aquatic invertebrates.:					
Titanium oxide					
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h		
	water				
Remarks - Acute - Fish:	Acute	1			
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h		
		Crustaceans			
Remarks - Acute - Aquatic	Acute				
invertebrates.:					
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates.	48 h		
		Daphnia			
Remarks - Acute - Aquatic	Acute				
invertebrates.:					
Remarks - Acute - Aquatic	No applicable toxicity data				
plants:					
Remarks - Chronic - Fish:	No applicable toxicity data				
Remarks - Chronic -	No applicable toxicity data				
Aquatic invertebrates.: BRIGHT BLUE					
		· · · · · · · · · · · · · · · · · · ·	1		
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available a	as they are bound within the	e polymer matrix.		
Conclusion/Summary	: Chemicals are not readi	ly available as they are bou	und within the		
Conclusion/Summary	polymer matrix.	Ty available as they are bou	ind within the		
	porymer maura.				
Persistence and degradability	<u>v</u>				
Conclusion/Summary	: Chemicals are not readi	ly available as they are bou	ind within the		
Conclusion/Summary	polymer matrix.	ly available as uley are bou			
	porymer maura.				

Bioaccumulative potential



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Product/ingredient name	LogPow	BCF	Potential
Decanedioic acid, 1,10-bis(2,2,6,6-	0.35	-	low
tetramethyl-4-piperidinyl) ester			

Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC)		
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided possible. Disposal of this product, solution should at all times comply with the require protection and waste disposal legislation ar authority requirements. Dispose of surplus products via a licensed waste disposal cont disposed of untreated to the sewer unless fu requirements of all authorities with jurisdic should be recycled. Incineration or landfill when recycling is not feasible. This materia disposed of in a safe way. Empty container product residues. Avoid dispersal of spilled contact with soil, waterways, drains and se	as and any by-products ements of environmental and any regional local s and non-recyclable tractor. Waste should not be fully compliant with the ction. Waste packaging I should only be considered ial and its container must be ers or liners may retain some ad material and runoff and

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 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods under transport regulations.

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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 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(a)2 - Proposed significant new use rules: 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) - Dioxin/Furane precusor: 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(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 Copper, [29H,31H-phthalocyaninato(2-) .kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (SP-4-1)- 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: Not listed
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 Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed

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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

No products were found.

Name	%	Classification
Decanedioic acid, 1,10-	>= 1 - <= 3	SERIOUS EYE DAMAGE - Category 1
bis(2,2,6,6-tetramethyl-4-		
piperidinyl) ester		
Phenol, 2-(2H-benzotriazol-	>= 1 - <= 3	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
2-yl)-4,6-bis(1,1-		EXPOSURE) - kidneys - liver - oral - Category 2
dimethylpropyl)-		
Titanium oxide	>= 5 - <= 10	CARCINOGENICITY - Category 2

Not applicable.

<u>State regulations</u> Massachusetts New York New Jersey Pennsylvania	:::::::::::::::::::::::::::::::::::::::	None of the components are listed. None of the components are listed. The following components are listed: Titanium oxide The following components are listed: Titanium oxide
<u>California Prop. 65</u>		
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	Not determined.
International regulations		
Inventory list		

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Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Europe inventory	:	Not determined.
Japan	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

<u>Instory</u>		
Date of printing	:	09/05/2019
Date of issue/Date of revision	:	09/03/2019
Date of previous issue	:	08/28/2015
Version	:	1.8
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 = International Convention for the Prevention of Pollution From
		Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)

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References

UN = United Nations Not available.

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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.