USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018 Page 1 of 16 Print Date 04/28/2018

SAFETY DATA SHEET

USP Navy Blue Pigment Additive 282C

Section 1. Identification			
GHS product identifier Chemical name CAS number Other means of identification Product type	:	USP Navy Blue Pigment Additive 282C Mixture Mixture FO20035821 liquid	
Relevant identified uses of the substance or mixture and uses advised againstProduct 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.
		1/16

USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018 Page 2 of 16 Print Date 04/28/2018

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	:	FO20035821

CAS number/other identifiers

%	CAS number	
5 - 10	13463-67-7	
1 - 3	1333-86-4	
		5 - 10 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.



USP Navy Blue Pigment Additive 282C

Version Number 1.1	Page 3 of 16
Revision Date 04/10/2018	Print Date 04/28/2018

		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 Inhalation Skin contact Ingestion <u>Over-exposure signs/symptoms</u>	 No known significant effects or critical hazards.
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)

Section 5. Firefighting measures



USP Navy Blue Pigment Additive 282C

Version Number 1.1	Page 4 of 16
Revision Date 04/10/2018	Print Date 04/28/2018

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 Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire- fighters Special protective equipment for	:	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. Fire-fighters should wear appropriate protective equipment and self-
fire-fighters	•	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 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	:	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 containm	nent a	nd cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Prevent
4/16		



USP Navy Blue Pigment Additive 282C

Version Numbe	er 1.1
Revision Date	04/10/2018

entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). 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:			



USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018

	Permissible Exposure Level 10 mg/m3			
Carbon black	OSHA PEL 1989 (1989-03-01)			
	PEL: Permissible Exposure Level 3.5 mg/m3 OSHA PEL (1993-06-30)			
	PEL: Permissible Exposure Level 3.5 mg/m3			
	NIOSH REL (1994-06-01) Time Weighted Average (TWA) 3.5 mg/m3			
	Time Weighted Average (TWA) 5.5 mg/m5			
	ACGIH TLV (2010-12-06)			
	TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction			
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 rick account in diastas this is a second			
Body protection	 if a risk assessment indicates this is necessary. 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. 			



USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018	Page 7 of 16 Print Date 04/28/2018
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

Appearance

Physical state	:	liquid [liquid]
Color	:	BLUE
Odor	:	Not available.
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.
D.1.4	-	1 (of a fallacie)
Relative density	:	Not available.
Solubility	:	
	:	Not available.
Solubility	:	Not available. Not available.
Solubility Solubility in water	:	Not available. Not available. Not available.
Solubility Solubility in water Partition coefficient: n-	:	Not available. Not available. Not available.
Solubility Solubility in water Partition coefficient: n- octanol/water	:	Not available. Not available. Not available. Not available.
Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature		Not available. Not available. Not available. Not available.
Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature		Not available. Not available. Not available. Not available. Not available. Not available.

Section 10. Stability and reactivity

:

Reactivity

No specific test data related to reactivity available for this product or its ingredients.



USP Navy Blue Pigment Additive 282C

Version Number 1.1	Page 8 of 16
Revision Date 04/10/2018	Print Date 04/28/2018

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 Incompatible materials	:	Keep away from extreme heat and oxidizing agents. 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			
Carbon black							
	LD50 Oral	Rat	15,400 mg/kg	-			
Remarks - Inhalation:	No applicable toxic	No applicable toxicity data					
Remarks - Dermal:	No applicable toxicity data						
Titanium dioxide							
Remarks - Oral:	No applicable toxic	city data					
	LC50 Inhalation Rat - Male 6.82 Mg/l 4 h						
	LD50 Dermal Rabbit > 5,000 mg/kg -						
Conclusion/Summary	: Mixtu	re.Not fully tested.					

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild	Human		72 hrs	-
	irritant				
Conclusion/Summary					
Skin	: N	lixture.Not fu	lly tested.		
Eyes	: Mixture.Not fully tested.				
Respiratory	: Mixture.Not fully tested.				
Sensitization					
Conclusion/Summary					
Skin	: N	lixture.Not fu	lly tested.		
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8/16



USP Navy Blue Pigment Additive 282C

Version Number 1.1	Page 9 of 16
Revision Date 04/10/2018	Print Date 04/28/2018

Respiratory	:	Μ	ixture.Not fully	tested.
Mutagenicity				
Conclusion/Summary	:	M	ixture.Not fully	tested.
Carcinogenicity				
Conclusion/Summary Classification	:	M	ixture.Not fully	tested.
Product/ingredient	OSHA		IARC	NTP
name Carbon black			2B	
Titanium dioxide			2B 2B	
Thainum dioxide			20	
Reproductive toxicity				
Conclusion/Summary	:	M	ixture.Not fully	tested.
<u>Teratogenicity</u>				
Conclusion/Summary	:	Μ	ixture.Not fully	tested.
Specific target organ toxicity Not available.	<u>(single ex</u>	posu	<u>re)</u>	
Specific target organ toxicity Not available.	(repeated	l expo	osure)	
Aspiration hazard Not available.				
Information on likely routes of exposure	of :	No	ot available.	
Potential acute health effects				
Eye contact	:	No	hown signific	ant effects or critical hazards.
Inhalation	:			ant effects or critical hazards.
Skin contact		No	o known signific	ant effects or critical hazards.
Ingestion	:			ant effects or critical hazards.
Symptoms related to the phys	sical, chem	nical a	and toxicologica	<u>l characteristics</u>
Eye contact	:	No	specific data.	



USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018 Page 10 of 16 Print Date 04/28/2018

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

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	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	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	
Carbon black				
Remarks - Acute - Fish:	No applicable toxicity data			
	Acute EC50 37.563 Mg/l Fresh	Aquatic invertebrates.	48 h	
	water Daphnia			
Remarks - Acute - Aquatic	Acute			



USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018 Page 11 of 16 Print Date 04/28/2018

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 dioxide			
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h
	water		
Remarks - Acute - Fish:	Acute		_
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
Remarks - Acute - Aquatic	Acute		
invertebrates.:		T	
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
Remarks - Acute - Aquatic invertebrates.:	Acute		
	No appliachla toxicity data		
Remarks - Acute - Aquatic plants:	No applicable toxicity data		
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:	No applicable toxicity data		
Conclusion/Summary	: Not available.		
Conclusion/Summary	• The available.		
Persistence and degradability	v		
	-		
Conclusion/Summary	Not available.		
·			
Bioaccumulative potential			
Not available.			

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 or minimized wherever



USP Navy Blue Pigment Additive 282C

Version Number 1.1	Page 12 of 16
Revision Date 04/10/2018	Print Date 04/28/2018

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 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Consult mode specific transport rules
International Water IMO/IMDG	:	Consult mode specific transport rules

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 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 6 - Final risk management: Not listed
		United States - TSCA 6 - Proposed risk management: Not listed



USP Navy Blue Pigment Additive 282C

Version Number 1.1	Page 13 of 16
Revision Date 04/10/2018	Print Date 04/28/2018

		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) - Preliminary assessment report (PAIR): Listed Quinacridone (C.I. Pigment Violet 19)
		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 4(f) - Priority risk review: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Phthalocyanine Blue
		United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed 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 - Toxic 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
DEA List II Chemicals (Essential	:	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Chemicals)

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification		
Carbon black	1 - 3	СН		



USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018 Page 14 of 16 Print Date 04/28/2018

Titanium dioxide	5 -	10	СН
SARA 313	<u> </u>		
Not applicable.			
State regulations			
Massachusetts	:	None of the components are listed	
New York	:	None of the components are listed	
New Jersey	:	The following components are lis Carbon black Titanium dioxide Phthalocyanine Blue	
Pennsylvania	:	The following components are lis Phthalocyanine Blue	ted:
		Titanium dioxide	
		Carbon black	
		Silica, amorphous	
<u>California Prop. 65</u> WARNING: This product contains a c	hemi	cal known to the State of Californi	a to cause cancer.
United States inventory (TSCA 8b)	:	All components are listed or exer	npted.
Canada inventory	:	All components are listed or exer	npted.
International regulations			
Inventory list			
Australia	:	All components are listed or exer	mpted.
Canada	:	All components are listed or exer	
China	:	All components are listed or exer	
Europe inventory	:	All components are listed or exer	
Japan Now Zeelend	:	All components are listed or exer	
New Zealand Philippings	:	All components are listed or exer All components are listed or exer	
Philippines Republic of Korea	:	All components are listed or exer	
Kepublic of Korea Taiwan	:	All components are listed or exer	
Turkey		Not determined.	inpica.
United States		All components are listed or exe	mpted
United States	•	An components are listed of exe	inpieu.

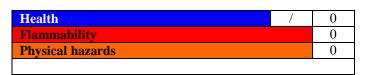


USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018 Page 15 of 16 Print Date 04/28/2018

Section 16. Other information

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



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

110001.)		
Date of printing	:	04/28/2018
Date of issue/Date of revision	:	04/10/2018
Date of previous issue	:	07/14/2015
Version	:	1.1
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 = Internediate 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) 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.

<u>PolyOne</u>

USP Navy Blue Pigment Additive 282C

Version Number 1.1 Revision Date 04/10/2018 Page 16 of 16 Print Date 04/28/2018