AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020 PolyOne

Page 1 of 15 Print Date 06/13/2020

SAFETY DATA SHEET

AMARELO CAP.III

Section 1. Identification	on	
GHS product identifier	:	AMARELO CAP.III
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10190251
Product type	:	solid
Relevant identified uses of the subs	stance	or mixture and uses advised against
Product use	:	Industrial applications.
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.
		1/15

AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020 <u>PolyOne</u>

Page 2 of 15 Print Date 06/13/2020

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	:	CC10190251

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	10 - 25	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.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable

AMARELO CAP.III



Skin contact:Flush clothIngestion:Wash rest i swall of wa mediMost important symptoms/effects, acute and defPotential acute health effectsEye contact:No k Skin contactIngestion:No k Skin contactOver-exposure signs/symptomsEye contact:No k Skin contactIngestion:No k Skin contactIngestion:No k Skin contactIngestion:No s Skin contactIngestion:No s Skin contactIngestion:No s Skin contactIngestion:No s Skin contactIndication of immediate medical attention and Notes to physician:In call:In call	Page 3 of 15 Print Date 06/13/2020
for b inhal delay surve Skin contact : Ingestion : Most important symptoms/effects, acute and delay Potential acute health effects Eye contact : Ingestion : No k Dimension : No k Skin contact : Ingestion : No k Skin contact : No k Skin contact : Inhalation : Skin contact : Ingestion : Ingestion : No s : Ingestion : No s : Ingestion : No s : Indication of immediate medical attention and Notes to physician :	
of wa medi Most important symptoms/effects, acute and del Potential acute health effects Eye contact : No k Inhalation : No k Skin contact : No k Ingestion : No k Over-exposure signs/symptoms Eye contact : No s Inhalation : No s Skin contact : No s Inhalation : No s Mo s Ingestion : No s Ingestion : No s Ingestion : No s Ingestion : No s	reathing. Get medical attention if symptoms occur. In case of ation of decomposition products in a fire, symptoms may be red. The exposed person may need to be kept under medical stillance for 48 hours. In contaminated skin with plenty of water. Remove contaminated ing and shoes. Get medical attention if symptoms occur. In out mouth with water. Remove victim to fresh air and keep at in a position comfortable for breathing. If material has been owed and the exposed person is conscious, give small quantities
Potential acute health effectsEye contact:No kInhalation:No kSkin contact:No kIngestion:No kOver-exposure signs/symptomsEye contact:No sInhalation:No sSkin contact:No sInhalation:No sSkin contact:No sIngestion:No sIndication of immediate medical attention andNotes to physician:In cal	ater to drink. Do not induce vomiting unless directed to do so by cal personnel. Get medical attention if symptoms occur.
Eye contact:No kInhalation:No kSkin contact:No kIngestion:No kOver-exposure signs/symptomsEye contact:No sInhalation:No sSkin contact:No sIngestion:No sIngestion:No sIndication of immediate medical attention andNo tes to physician:	ayed
Inhalation:No kSkin contact:No kIngestion:No kOver-exposure signs/symptomsEye contact:No sInhalation:No sSkin contact:No sIngestion:No sIndication of immediate medical attention andNotes to physician:In ca	
Skin contact:No kIngestion:No kOver-exposure signs/symptomsEye contact:No sInhalation:No sSkin contact:No sIngestion:No sIndication of immediate medical attention andNo tes to physician:	nown significant effects or critical hazards.
Ingestion:No kOver-exposure signs/symptomsEye contact:No sInhalation:No sSkin contact:No sIngestion:No sIndication of immediate medical attention and.Notes to physician:In cal	nown significant effects or critical hazards.
Over-exposure signs/symptoms Eye contact : No s Inhalation : No s Skin contact : No s Ingestion : No s Indication of immediate medical attention and Notes to physician : In ca	nown significant effects or critical hazards.
Eye contact:No sInhalation:No sSkin contact:No sIngestion:No sIndication of immediate medical attention andNotes to physician:In ca	nown significant effects or critical hazards.
Inhalation:No sSkin contact:No sIngestion:No sIndication of immediate medical attention andNotes to physician:In ca	
Skin contact:No sIngestion:No sIndication of immediate medical attention andNotes to physician:In ca	pecific data.
Ingestion:No sIndication of immediate medical attention andNotes to physician:In ca	pecific data.
Indication of immediate medical attention and Notes to physician : In ca	pecific data.
Notes to physician : In ca	pecific data.
1 0	special treatment needed, if necessary
J	se of inhalation of decomposition products in a fire, symptoms be delayed. The exposed person may need to be kept under
	cal surveillance for 48 hours. pecific treatment.
	ction shall be taken involving any personal risk or without ble training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

AMARELO CAP.III



Version Number 1.0 Revision Date 06/12/2020	Page 4 of 15 Print Date 06/13/2020
Suitable extinguishing media Unsuitable extinguishing media	 In case of fire, use water spray (fog), foam, dry chemical or CO₂. 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 sulfur oxides phosphorus oxides 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 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 containment and 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		

AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020



Page 5 of 15 Print Date 06/13/2020

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) 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	

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker
Environmental exposure controls	:	exposure to airborne contaminants. Emissions from ventilation or work process equipment should be

AMARELO CAP.III



Version Number 1.0 Revision Date 06/12/2020	Page 6 of 15 Print Date 06/13/2020
	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	
	: 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

Appearance

Physical state Color		solid [Pellets.] YELLOW
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.

AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020

<u>PolyOne</u>

Page 7 of 15 Print Date 06/13/2020

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-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
		Kinematic: Not available.
Aerosol product		
<u>Actosol product</u>		
Heat of combustion	:	Not available.
		NT
Ignition distance	:	Not available.
Enclosed space ignition - Time	:	Not available.
equivalent		NT / 1111
Enclosed space ignition -	:	Not available.
Deflagration density		NI-(11-1-1-
Flame height	:	Not available.
Flame duration	:	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.
		7/15



AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020

Page 8 of 15 Print Date 06/13/2020

Oxidizer.

Hazardous decomposition products

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

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide				
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.		·

Conclusion/Summary

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	: N	/lixture.Not fu	lly tested.		
Respiratory	: N	/lixture.Not fu	lly tested.		
<u>Sensitization</u>					
Conclusion/Summary					
Skin	: N	/lixture.Not fu	lly tested.		
Respiratory	: N	/lixture.Not fu	lly tested.		
<u>Mutagenicity</u>					
Conclusion/Summary	: N	lixture.Not fu	lly tested.		
Carcinogenicity					
Conclusion/Summary	: N	/lixture.Not fu	lly tested.		

AMARELO CAP.III

PolyOne

Version Number 1.0 Revision Date 06/12/2020 Page 9 of 15 Print Date 06/13/2020

Classification

Product/ingredient name	OSHA	IARC	NTP	
Titanium dioxide	-	2B	-	
<u>Reproductive toxicity</u>				
Conclusion/Summary	: M	ixture.Not fully to	ested.	
Teratogenicity				
Conclusion/Summary	: M	ixture.Not fully to	ested.	
Specific target organ toxicity (Not available.	<u>ísingle exposur</u>	<u>e)</u>		
Specific target organ toxicity (Not available.	repeated expo	<u>sure)</u>		
Aspiration hazard Not available.				
Information on likely routes o exposure	f : No	ot available.		
Potential acute health effects				
Eye contact	: No	o known significa	nt effects or critical hazards.	
Inhalation			nt effects or critical hazards.	
Skin contact	: No	o known significa	nt effects or critical hazards.	
Ingestion	: No	o known significa	nt effects or critical hazards.	
Symptoms related to the physic	ical, chemical a	and toxicological	characteristics	
Eye contact	: No	specific data.		
Inhalation		specific data.		
Skin contact		specific data.		
Ingestion		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		ot available. ot available.		

9/15

AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020 <u>PolyOne</u>

Page 10 of 15 Print Date 06/13/2020

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
Titanium dioxide			
	Acute LC50 > 1,000 Mg/l Marine water	Fish - Fish	96 h
Remarks - Acute - Fish:	Acute		
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
Remarks - Acute - Aquatic plants:	No applicable toxicity data		



AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020 Page 11 of 15 Print Date 06/13/2020

Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			
Remarks - Acute - Aquatic	Chemicals are not readily available as they are bound within the polymer matrix.		
invertebrates.:	chemicals are not readily available as arey are bound within the polymer matrix.		
in the test attest.	Chamiesle and not not dily supilable as they are hourd within the		
Conclusion/Summary	: Chemicals are not readily available as they are bound within the		
	polymer matrix.		
Persistence and degradability			
Conclusion/Summary	: Chemicals are not readily available as they are bound within the		
-	polymer matrix.		
	1 2		
Bioaccumulative potential			
Not available.			
<u>Mobility in soil</u>			
Soil/water partition coefficie	ent : 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 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

AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020 -

<u>PolyOne</u>

Page 12 of 15 Print Date 06/13/2020

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.

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 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 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) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental
	United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed

AMARELO CAP.III

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Version Number 1.0 Revision Date 06/12/2020 Page 13 of 15 Print Date 06/13/2020

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

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
Titanium dioxide	>= 10 - <= 25	CARCINOGENICITY - Category 2

<u>SARA 313</u>

Form R - Reporting requirements

Product name	CAS number	%	
Benzene, 1,2,3,4,5,6-hexachloro-	118-74-1	> 0 - <= 0.1	

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

State regulations



AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020 Page 14 of 15 Print Date 06/13/2020

Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
		Titanium dioxide
Pennsylvania	:	The following components are listed:
		Titanium dioxide

California Prop. 65

WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-

United States inventory (TSCA 8b)	:	All components are active or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
<u>Inventory list</u>		
Australia	:	Not determined.
Canada	:	All components are listed or exempted.
China	:	Not determined.
Europe inventory	:	At least one component is not listed in EINECS but all such components are listed in ELINCS. Please contact your supplier for information on the inventory status of this material.
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 active or exempted.

Section 16. Other information

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

Health

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AMARELO CAP.III

Version Number 1.0 Revision Date 06/12/2020 Page 15 of 15 Print Date 06/13/2020

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

HIStor		
Date of printing	:	06/13/2020
Date of issue/Date of revision	:	06/12/2020
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 = International Convention for the Prevention of Pollution From
		Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		$\hat{U}N = United Nations$
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.