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SAFETY DATA SHEET

YELLOW 107C

Section 1. Identification	on	
GHS product identifier	:	YELLOW 107C
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10229026
Product type	:	solid
<u>Relevant identified uses of the subs</u> Product use	tance :	or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

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.

Section 3. Composition/information on ingredients

:

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10229026

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	5 - 10	13463-67-7
Quartz	0 - 0.3	14808-60-7

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.

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		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.
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. No known significant effects or critical hazards. No known significant effects or critical hazards. 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 att	entio	n and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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

Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 .
Unsuitable extinguishing media	:	None known.

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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 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	:	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.
For emergency responders	:	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 contain	ment 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 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

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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			
Quartz	OSHA PEL 1989 (1989-03-01) Calculated as Quartz			
	PEL: Permissible Exposure Level 0.1 mg/m3 Form: Respirable dust			
	OSHA PEL Z3 (1997-09-03)			
	Time Weighted Average (TWA) Form: Respirable			
	Time Weighted Average (TWA) 10 mg/m3 Form: Respirable			
	Time Weighted Average (TWA) 30 mg/m3 Form: Total dust			
	NIOSH REL (1994-06-01)			
	Time Weighted Average (TWA) 0.05 mg/m3 Form: Respirable dust			
	ACGIH TLV (2005-12-09)			
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:			
	Permissible Exposure Level 0.025 mg/m3 Form: Respirable fraction			
	OSHA PEL (2016-06-23)			
	PEL: Permissible Exposure Level 0.05 mg/m3 Form: Respirable dust			
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)			

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		ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3
	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. 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		
	:	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	:	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.

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Section 9. Physical and chemical properties

Appearance

Physical state	:	solid [Pellets.]
Color		YELLOW
Odor		Faint odor.
Odor threshold		Not available.
pH		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-	:	Not available.
octanol/water		
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	:	Under normal conditions of storage and use, hazardous decomposition
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products

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

Conclusion/Summary

Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild irritant	Human		72 hrs	-
Conclusion/Summary					
Skin		/lixture.Not fu	•		
Eyes		/lixture.Not fu			
Respiratory	: N	/lixture.Not fu	Illy tested.		
<u>Sensitization</u>					
Conclusion/Summary					
Skin	: N	/lixture.Not fu	Illy tested.		
Respiratory	: N	/lixture.Not fu	Illy tested.		
<u>Mutagenicity</u>					
Conclusion/Summary	: N	/lixture.Not fu	ally tested.		
Carcinogenicity					
Conclusion/Summary	: N	/lixture.Not fu	illy tested.		
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Product/ingredient	OSHA	IARC	NTP	
name				
Quartz		1	Known to be a l	numan carcinogen.
Titanium dioxide		2B		
Reproductive toxicity				
Conclusion/Summary	: 1	Mixture.Not	fully tested.	
<u>Teratogenicity</u>				
Conclusion/Summary	: 1	Mixture.Not	fully tested.	
Specific target organ toxici Not available	ity (single expos	<u>ure)</u>		
Specific target organ toxici		posure)		
Product/ingredient name	Category		Route of exposure	Target organs
Quartz	Category 1			
<u>Aspiration hazard</u> Not available. Information on likely route exposure	es of : 1	Not available).	
Not available. Information on likely route exposure		Not available) .	
Not available. Information on likely route exposure Potential acute health effec Eye contact	<u>ts</u> : 1	No known si	gnificant effects or criti	
Not available. Information on likely route exposure <u>Potential acute health effec</u> Eye contact Inhalation	<u>ts</u> : 1 : 1	No known si No known si	gnificant effects or criti gnificant effects or criti	cal hazards.
Not available. Information on likely route exposure Potential acute health effec Eye contact Inhalation Skin contact	<u>ts</u> : 1 : 1 : 1	No known si No known si No known si	gnificant effects or criti gnificant effects or criti gnificant effects or criti	cal hazards. cal hazards.
Not available. Information on likely route exposure Potential acute health effec Eye contact Inhalation Skin contact	<u>ts</u> : 1 : 1 : 1	No known si No known si No known si	gnificant effects or criti gnificant effects or criti	cal hazards. cal hazards.
Not available. nformation on likely route exposure Potential acute health effec Eye contact Inhalation Skin contact Ingestion	ts : 1 : 1 : 1 : 1	No known si No known si No known si No known si	gnificant effects or criti gnificant effects or criti gnificant effects or criti gnificant effects or criti	cal hazards. cal hazards.
Not available. Information on likely route exposure Potential acute health effec Eye contact Inhalation Skin contact Ingestion Symptoms related to the ph	<u>ts</u> : 1 : 1 : 1 : 1 : 1	No known si No known si No known si No known si I and toxico	gnificant effects or criti gnificant effects or criti gnificant effects or criti gnificant effects or criti logical characteristics	cal hazards. cal hazards.
Not available.	<u>ts</u> : 1 : 1 : 1 : 1 : 1 : 1 : 1	No known si No known si No known si No known si	gnificant effects or criti gnificant effects or criti gnificant effects or criti gnificant effects or criti logical characteristics ata.	cal hazards. cal hazards.
Not available. Information on likely route exposure Potential acute health effec Eye contact Inhalation Skin contact Ingestion Symptoms related to the ph Eye contact	<u>ts</u> : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	No known si No known si No known si No known si I and toxico No specific d	gnificant effects or criti gnificant effects or criti gnificant effects or criti gnificant effects or criti logical characteristics ata.	cal hazards. cal hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

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Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	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
Quartz			
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 dioxide			
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h



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	water						
Remarks - Acute - Fish:	Acute						
	Acute LC5	0 3 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h			
Remarks - Acute - Aquatic invertebrates.:	Acute						
	Acute LC5	0 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h			
Remarks - Acute - Aquatic invertebrates.:	Acute						
Remarks - Acute - Aquatic plants:	No applica	No applicable toxicity data					
Remarks - Chronic - Fish:	No applica	ble toxicity data					
Remarks - Chronic - Aquatic invertebrates.:	No applica	ble toxicity data					
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Remarks - Acute - Aquatic invertebrates.:	Chemicals	are not readily available a	as they are bound within the	e polymer matrix.			
Conclusion/Summary	:	Chemicals are not reading polymer matrix.	ly available as they are bou	nd within the			
Persistence and degradability	<u>7</u>						
Conclusion/Summary	:	Chemicals are not reading polymer matrix.	ly available as they are bou	nd within the			
	: Chemicals are not readily available as they are bound within the polymer matrix.						
Conclusion/Summary			ly available as they are bou	nd within the			
Conclusion/Summary <u>Bioaccumulative potential</u> Not available.			ly available as they are bou	nd within the			
Bioaccumulative potential			ly available as they are bou	nd within the			
<u>Bioaccumulative potential</u> Not available.			ly available as they are bou	nd within the			

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
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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	:	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 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

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		United States - TSCA 8(a) - Chemical risk rules: Not listed
		United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
		United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not
		determined
		United States - TSCA 8(a) - Preliminary assessment report
		(PAIR): Not listed
		United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed
		United States - TSCA 8(d) - Health and safety studies: Not listed
		United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed
		United States - EPA Clean water act (CWA) section 311 -
		Hazardous substances: Not 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)	:	Not listed
Hazardous Air Pollutants (HAPs)		
Clean Air Act Section 602 Class I	:	Not listed
Substances		
Clean Air Act Section 602 Class II	:	Not listed
Substances		
DEA List I Chemicals (Precursor	:	Not listed

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

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Chemicals)

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
Quartz	0 - 0.3	СН
Titanium dioxide	5 - 10	СН

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<u>SARA 313</u> Not applicable.		
<u>State regulations</u> Massachusetts New York New Jersey	:	None of the components are listed. None of the components are listed. The following components are listed: Calcium carbonate Titanium dioxide Talc
Pennsylvania	:	Quartz The following components are listed: Quartz
		Talc
		Titanium dioxide
		Calcium carbonate
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		
Inventory list		
Australia	:	Not determined.
Canada	:	At least one component is not listed in DSL but all such components are listed in NDSL.
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.



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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>Flistor y</u>		
Date of printing	:	11/21/2018
Date of issue/Date of revision	:	05/24/2018, 05/24/2018
Date of previous issue	:	11/06/2015
Version	:	1, 1.1, 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 = 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)
		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.

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