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SAFETY DATA SHEET

GREEN

Section 1. Identificati	on	
GHS product identifier	:	GREEN
Chemical name	:	Mixture
CAS number		Mixture
Other means of identification	:	CC10178185
Product type	:	solid
Relevant identified uses of the sub Product use	stance :	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	:	CC10178185

CAS number/other identifiers

Ingredient name	%	CAS number
Nickel titanium oxide (NiTiO3)	0.3 - 1	12035-39-1
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)	0.3 - 1	1345-16-0

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. 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 Over-exposure signs/symptoms	No known s No known s	ignificant effects or critical hazards. ignificant effects or critical hazards. ignificant effects or critical hazards. ignificant 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 at	ion and special	treatment needed, if necessary
Notes to physician	may be dela	halation of decomposition products in a fire, symptoms yed. The exposed person may need to be kept under reillance for 48 hours.
Specific treatments	No specific	
Protection of first-aiders	No action sl suitable trai	all be taken involving any personal risk or without ning.

See toxicological information (Section 11)

Section 5. Firefighting measures

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Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If 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 and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency
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contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational	:	Eating, drinking and smoking should be prohibited in areas where this
hygiene		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

Exposure limits
ACGIH TLV (1994-09-01) as Co
TLV-TWA: Threshold Limit Value - Time weighted average PEL:
Permissible Exposure Level 0.02 mg/m3
OSHA PEL (1993-06-30) as Ni
PEL: Permissible Exposure Level 1 mg/m3
OSHA PEL 1989 (1989-03-01) as Ni
PEL: Permissible Exposure Level 1 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,

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		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

Appearance

Physical state Color	:	solid [Pellets.] GREEN
Odor		Faint odor.
Odor threshold		Not available.
pH		Not available.
1		Not available.
Melting point		Not available.
Boiling point	:	not available.

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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.

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



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Remarks - Oral:			toxicity data		
Remarks - Inhalation:			toxicity data		
Remarks - Dermal:	11		toxicity data		
Remarks - Oral:	.		toxicity data		
Remarks - Inhalation:			toxicity data		
Remarks - Dermal:			toxicity data		
Conclusion/Summary	:	Μ	ixture.Not full	y tested.	
Irritation/Corrosion					
Conclusion/Summary Skin		м	E	tootad	
Skin Eyes	:		lixture.Not full lixture.Not full		
Respiratory	:		lixture.Not full		
<u>Sensitization</u>					
Conclusion/Summary					
Skin	:		ixture.Not full		
Respiratory	:	M	ixture.Not full	y tested.	
Mutagenicity					
Conclusion/Summary	:	M	ixture.Not full	y tested.	
Carcinogenicity					
Conclusion/Summary <u>Classification</u>	:	М	ixture.Not full	y tested.	
Product/ingredient	OSHA		IARC	NTP	
name	00		Linc		

r rouuct/ingreutent	USHA	IAKC	IN11
name			
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)			Reasonably anticipated to be a human carcinogen.

<u>Reproductive toxicity</u>		
Conclusion/Summary	:	Mixture.Not fully tested.
<u>Teratogenicity</u>		
Conclusion/Summary	:	Mixture.Not fully tested.
Specific target organ toxicity (single Not available.	expo	<u>osure)</u>

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Specific target organ toxicity (repeated exposure)

Specific target organ toxicity Product/ingredient name	Category		Route of exposure	Target organs	
Nickel titanium oxide	Category 1				
(NiTiO3)					
Aspiration hazard Not available.					
Information on likely routes of exposure	of :	Not available			
Potential acute health effects					
Eye contact	:	No known si	gnificant effects or criti	cal hazards.	
Inhalation	:		gnificant effects or criti		
Skin contact	:		gnificant effects or criti		
Ingestion	:	No known si	gnificant effects or criti	cal hazards.	
Symptoms related to the phys	sical, chemic	al and toxico	logical characteristics		
Eye contact	:	No specific d	ata.		
Inhalation	:	No specific d	ata.		
Skin contact	:	No specific d	ata.		
Ingestion	:	No specific d	ata.		
Delayed and immediate effect	s as well as	chronic effect	ts from short and long	-term exposure	
Short term exposure					
Potential immediate effects	:	Not available			
Potential delayed effects		Not available	-		
i otoritali dolaged errocts		1.00 0.0000			
Long term exposure					
Potential immediate effects	:	Not available	.		
Potential delayed effects	:	Not available			
Potential chronic health effec	<u>ets</u>				
Conclusion/Summary	:	Mixture.Not	fully tested.		
General	:	No known si	gnificant effects or criti	cal hazards.	
Carcinogenicity			gnificant effects or criti		
Mutagenicity	:		gnificant effects or criti		

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Teratogenicity Developmental effects Fertility effects

- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result		Species	Exposure
Nickel titanium oxide (NiTiO3)			
Remarks - Acute - Fish:	No applica	able toxicity data		
Remarks - Acute - Aquatic	No applica	able toxicity data		
invertebrates.:				
Remarks - Acute - Aquatic	No applica	able toxicity data		
plants:				
Remarks - Chronic - Fish:	<u> </u>	able toxicity data		
Remarks - Chronic -	No applica	able toxicity data		
Aquatic invertebrates.:				
Cobalt aluminate blue spinel (
Remarks - Acute - Fish:	No applica	able toxicity data		
Remarks - Acute - Aquatic	No applica	able toxicity data		
invertebrates.:				
Remarks - Acute - Aquatic	No applica	able toxicity data		
plants:				
Remarks - Chronic - Fish:	**	able toxicity data		
Remarks - Chronic -	No applica	able toxicity data		
Aquatic invertebrates.:				
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Remarks - Acute - Aquatic	Chemicals	are not readily availa	able as they are bound wi	ithin the polymer matrix.
invertebrates.:				
Conclusion/Summary	:	Chemicals are not polymer matrix.	readily available as they	are bound within the
Persistence and degradability	<u>Y</u>			
Conclusion/Summary	:	Chemicals are not	readily available as they	are bound within the

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		polymer matrix.
Conclusion/Summary	:	Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulative potential Not available.		
Mobility in soil		
Soil/water partition coefficient (KOC)	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.
	•	21 4

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.
		contact with son, water ways, trains 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.

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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
C.S. Federal regulations	•	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
		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: Listed Cobalt titanate green spinel (C.I. Pigment
		Green 50)
		Nickel antimony yellow rutile (C.I. Pigment Yellow 53)
		Nickel titanium oxide (NiTiO3)
		United States EDA Clean mater act (CWA) section 211
		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)

Listed :

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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	:	Not listed
Chemicals)		

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
Nickel titanium oxide (NiTiO3)	0.3 - 1	АН, СН
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)	0.3 - 1	СН

SARA 313

Product name	CAS number	%
Nickel titanium oxide	12035-39-1	0.3 - 1
(NiTiO3)		
Cobalt aluminate blue spinel	1345-16-0	0.3 - 1
(C.I. Pigment Blue 28)		
Nickel antimony yellow	8007-18-9	1 - 3
rutile (C.I. Pigment Yellow		
53)		
Cobalt titanate green spinel	68186-85-6	10 - 25
(C.I. Pigment Green 50)		
Cobalt titanate green spinel	68186-85-6	10 - 25
(C.I. Pigment Green 50)		
Nickel antimony yellow	8007-18-9	1 - 3
rutile (C.I. Pigment Yellow		
53)		
Cobalt aluminate blue spinel	1345-16-0	0.3 - 1
(C.I. Pigment Blue 28)		
Nickel titanium oxide	12035-39-1	0.3 - 1
(NiTiO3)		
	Nickel titanium oxide (NiTiO3)Cobalt aluminate blue spinel (C.I. Pigment Blue 28)Nickel antimony yellow rutile (C.I. Pigment Yellow 53)Cobalt titanate green spinel (C.I. Pigment Green 50)Cobalt titanate green spinel (C.I. Pigment Green 50)Nickel antimony yellow rutile (C.I. Pigment Green 50)Nickel antimony yellow rutile (C.I. Pigment Green 50)Nickel antimony yellow rutile (C.I. Pigment Yellow 53)Cobalt aluminate blue spinel (C.I. Pigment Blue 28)Nickel titanium oxide	Nickel titanium oxide (NiTiO3)12035-39-1Cobalt aluminate blue spinel (C.I. Pigment Blue 28)1345-16-0Nickel antimony yellow rutile (C.I. Pigment Yellow 53)8007-18-9Cobalt titanate green spinel (C.I. Pigment Green 50)68186-85-6Cobalt titanate green spinel (C.I. Pigment Green 50)68186-85-6Nickel antimony yellow rutile (C.I. Pigment Green 50)8007-18-9Nickel antimony yellow rutile (C.I. Pigment Green 50)8007-18-9Nickel antimony yellow rutile (C.I. Pigment Yellow 53)1345-16-0Cobalt aluminate blue spinel (C.I. Pigment Blue 28)1345-16-0Nickel titanium oxide12035-39-1

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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.

<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: Cobalt titanate green spinel (C.I. Pigment Green 50) Nickel antimony yellow rutile (C.I. Pigment Yellow 53) Cobalt aluminate blue spinel (C.I. Pigment Blue 28) The following components are listed: Cobalt titanate green spinel (C.I. Pigment Green 50)		
		Nickel antimony yellow rutile (C.I. Pigment Yellow 53)		
		Cobalt aluminate blue spinel (C.I. Pigment Blue 28)		
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	:	Not determined.		
International regulations				
<u>Inventory list</u>				
Australia	:	Not determined.		
Canada	:	Not determined.		
China	:	Not determined.		
Europe inventory	:	All components are listed or exempted.		
Japan	:	Not determined.		
New Zealand	:	Not determined. Not determined.		
Philippines Republic of Korea	÷	Not determined.		
Taiwan	:	Not determined.		
Turkey	-	Not determined.		
United States	:	All components are listed or exempted.		

Section 16. Other information



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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>Illstol y</u>		
Date of printing	:	04/30/2018
Date of issue/Date of revision	:	04/24/2018
Date of previous issue	:	08/31/2017
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 = 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.