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## SAFETY DATA SHEET

#### **VERDE 367C LM/UV**

Section 1. Identification			
GHS product identifier		VERDE 367C LM/UV	
Chemical name	:	Mixture	
CAS number	:	Mixture	
Other means of identification	:	CC10207092	
Product type	:	solid	
Relevant identified uses of the subs	stance	or mixture and uses advised against	
Product use	:	Industrial applications. Plastics.	
Supplier's details	:	POLYONE CORPORATION	
		33587 Walker Road, Avon Lake, OH 44012	
		1 (440) 930-1000 or 1 (866) POLYONE	
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).	
	:	or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire,	

### 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 MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
Supplemental label elements	:	None known.



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Hazards not otherwise classified : None known.

### Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10207092

CAS number/other identifiers

Ingredient name	%	CAS number
Antimony trioxide	5 - 10	1309-64-4
Titanium dioxide	1 - 5	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 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.



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#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.	
Inhalation	:	No known significant effects or critical hazards.	
Skin contact	:	No known significant effects or critical hazards.	
Ingestion	:	No known significant effects or critical hazards.	
Over-exposure signs/symptoms			
Eye contact	:	No specific data.	
Inhalation	:	No specific data.	
Skin contact	:	No specific data.	
Ingestion	:	No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician :	:	Treat symptomatically. Contact poison treatment specialist	
Specific treatments :	:	immediately if large quantities have been ingested or inhaled. No specific treatment.	

suitable training.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

:

#### Extinguishing media

**Protection of first-aiders** 

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: 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.

No action shall be taken involving any personal risk or without



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Special protective	equipment for
fire-fighters	

Fire-fighters should wear appropriate protective equipment and selfcontained 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 specialised 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 containme	nt aı	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

### 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,	:	Store in accordance with local regulations. Store in original container



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including any incompatibilities

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
Antimony trioxide		OSHA PEL (1993-06-30) Calculated as Sb PEL: Permissible Exposure Level 0.5 mg/m3 NIOSH REL (1994-06-01) Calculated as Sb Time Weighted Average (TWA) 0.5 mg/m3 OSHA PEL 1989 (1989-03-01) Calculated as Sb PEL: Permissible Exposure Level 0.5 mg/m3 ACGIH TLV (1994-09-01)
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: Permissible Exposure Level 10 mg/m3
Appropriate engineering controls Environmental exposure controls	:	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**

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Hygiene measures Eye/face protection	<ul> <li>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.</li> <li>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.</li> </ul>
Skin protection	
Skill 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	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

#### **Appearance**

Physical state	:	solid [Pellets.]
Color	:	GREEN
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.

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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

Product/ingredient name	Result	Species	Dose	Exposure
Antimony trioxide				
	LD50 Oral	Rat	34,000 mg/kg	-



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Titanium dioxide		<u><u> </u></u>	11 1		
Conclusion/Summary	: N	Aixture.Not fu	Illy tested.		
Irritation/Corrosion					
Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimony trioxide	Eyes - Mild irritant	Rabbit			-
Conclusion/Summary					
Skin		Aixture.Not fu			
Eyes		/lixture.Not fu /lixture.Not fu			
Respiratory	: N	mixture.not fu	iny tested.		
<b>Sensitization</b>					
Conclusion/Summary					
Skin		Aixture.Not fu			
Respiratory	: N	Aixture.Not fu	illy tested.		
<b>Mutagenicity</b>					
Conclusion/Summary	: N	Aixture.Not fu	lly tested.		
<b>Carcinogenicity</b>					
Conclusion/Summary	: N	Aixture.Not fu	lly tested.		
<u>Classification</u> Product/ingredient name	OSHA	T	ARC	NT	)
Antimony trioxide	USIIA		B	1111	-
Titanium dioxide			B		
Reproductive toxicity		2	D		
Conclusion/Summary	: N	/lixture.Not fu	lly tested.		
<u>Teratogenicity</u>					
Conclusion/Summary	: N	/lixture.Not fu	llv tested.		
			,		
Specific target organ toxici Not available.	ty (single exposi	ure)			



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Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	:	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.
Symptoms related to the physical, ch	nemi	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion Delayed and immediate effects and a Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	: : : : : :	No specific data. No specific data. No specific data. No specific data. <b>chronic effects from short and long term exposure</b> Not available. Not available. Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	:::::::::::::::::::::::::::::::::::::::	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity



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#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

**Toxicity** 

Acute LC50 80,000 µg/l Fresh water Acute LC50 530 mg/l Fresh water Acute LC50 1,000,000 µg/l Marine water Acute EC50 423,450 µg/l Fresh	Fish - Fathead minnow Fish - Bluegill Fish - Mummichog	96 h 96 h
water Acute LC50 530 mg/l Fresh water Acute LC50 1,000,000 µg/l Marine water	Fish - Bluegill	96 h
Acute LC50 1,000,000 µg/l Marine water		
water	Fish - Mummichog	
Acute EC50 423 450 µg/l Fresh		96 h
water	Aquatic invertebrates. Water flea	48 h
Acute EC50 730 µg/l Fresh water	Aquatic plants - Green algae	72 h
Acute EC50 4.15 mg/l Marine water	Aquatic plants - Diatom	72 h
Acute EC50 4.15 mg/l Marine water	Aquatic plants - Diatom	96 h
Acute EC50 760 µg/l Fresh water	Aquatic plants - Green algae	96 h
Acute EC50 740 µg/l Fresh water	Aquatic plants - Green algae	96 h
	· · · · ·	•
Acute LC50 1,000,000 µg/l Marine water	Fish - Mummichog	96 h
Acute LC50 1,000 mg/l Fresh water	Fish - Fathead minnow	96 h
Acute LC50 5.5 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
Acute LC50 10 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	water Acute EC50 730 µg/l Fresh water Acute EC50 4.15 mg/l Marine water Acute EC50 4.15 mg/l Marine water Acute EC50 760 µg/l Fresh water Acute EC50 740 µg/l Fresh water Acute LC50 1,000 mg/l Fresh water Acute LC50 1,000 mg/l Fresh water Acute LC50 5.5 mg/l Fresh water Acute LC50 10 mg/l Fresh water Acute LC50 13 mg/l Fresh water	waterWater fleaAcute EC50 730 µg/l Fresh waterAquatic plants - Green algaeAcute EC50 4.15 mg/l Marine waterAquatic plants - DiatomAcute EC50 4.15 mg/l Marine waterAquatic plants - DiatomAcute EC50 760 µg/l Fresh waterAquatic plants - Green algaeAcute EC50 740 µg/l Fresh waterAquatic plants - Green algaeAcute EC50 1,000,000 µg/l Marine waterFish - MummichogAcute LC50 1,000 mg/l Fresh waterFish - MummichogAcute LC50 1,000 mg/l Fresh waterFish - Fathead minnowAcute LC50 5.5 mg/l Fresh waterAquatic invertebrates. Water fleaAcute LC50 10 mg/l Fresh waterAquatic invertebrates. Water fleaAcute LC50 13 mg/l Fresh waterAquatic invertebrates. Water fleaAcute LC50 6.5 mg/l Fresh waterAquatic invertebrates. Water fleaAcute LC50 13 mg/l Fresh waterAquatic invertebrates. Water fleaAcute LC50 19.3 mg/l Fresh waterAquatic invertebrates. Water fleaAcute EC50 19.3 mg/l Fresh waterAquatic invertebrates. Water flea



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	Acute EC50 35.9 mg/l Fresh water	Aquatic plants - Green	72 h
	Acute LC50 55.7 mg/11 tesh water		/ 2 11
		algae	
	Acute EC50 5.83 mg/l Fresh water	Aquatic plants - Green	72 h
		algae	
VERDE 367C LM/UV			
Remarks - Acute - Aquatic	Chemicals are not readily available	as they are bound within the	e polymer matrix.
invertebrates.:		2	1 2
Conclusion/Summary	: Chemicals are not rea	lily available as they are bou	nd within the
-	polymer matrix.		
Persistence and degradability	<u>Y</u>		
Conclusion/Summary	: Chemicals are not rea polymer matrix.	lily available as they are bou	nd within the
Conclusion/Summary	: Chemicals are not rea polymer matrix.	dily available as they are bou	nd within the

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

#### **Mobility in soil**

Soil/water partition coefficient (KOC)	:	Not available.
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.



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#### 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 Classification	: Not regulated for transportation.
ICAO/IATA	: Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	: Not classified as dangerous good 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
		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 Antimony trioxide
		Phthalocyanine green
		United States - EPA Clean water act (CWA) section 311 -
		Hazardous substances: Listed
		United States - EPA Clean air act (CAA) section 112 - Accidental

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**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
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)

Chemical Name	CAS-No.	RQ for component
Antimony trioxide	1309-64-4	1,000 lb(s) 454 kg

#### SARA 311/312

Classification

Not applicable.

:

#### **Composition/information on ingredients**

Name	%	Classification
Antimony trioxide	5 - 10	АН, СН
Titanium dioxide	1 - 5	СН

#### SARA 313

	Product name	CAS number	%
Form R - Reporting	Antimony trioxide	1309-64-4	0
requirements			
Supplier notification	Antimony trioxide	1309-64-4	0

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.



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<u>State regulations</u> Massachusetts	:	The following components are listed: Calcium carbonate Antimony trioxide Titanium dioxide
New York	:	The following components are listed:
New Jersey	:	Antimony trioxide The following components are listed: Calcium carbonate Antimony trioxide Titanium dioxide
Pennsylvania	:	The following components are listed: Calcium carbonate
		Antimony trioxide
		Titanium dioxide
<u>California Prop. 65</u> WARNING: This product contains a c	hemi	ical known to the State of California to cause cancer.
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
International lists	:	<ul> <li>Australia inventory (AICS): Not determined.</li> <li>Taiwan inventory (CSNN): Not determined.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>EINECS: Not determined.</li> <li>Japan inventory: Not determined.</li> <li>China inventory (IECSC): Not determined.</li> <li>Korea inventory: Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
<b>Chemical Weapons Convention</b>	:	Not listed
List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals	:	Not listed



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### **Section 16. Other information**

#### **History**

Date of printing	:	10/30/2014
Date of issue/Date of revision	:	10/29/2014
Date of previous issue	:	10/21/2014
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 $73/78$ = 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.