V0044G Natural

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SAFETY DATA SHEET

V0044G Natural

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	:	V0044G Natural Mixture Mixture EM10029289 solid
<u>Relevant identified uses of the subs</u> 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	:	EM10029289

CAS number/other identifiers

Ingredient name	%	CAS number
Antimony trioxide	10 - 25	1309-64-4
Zinc oxide	10 - 25	1314-13-2

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 atte	<u>ntio</u>	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. Fire-fighting 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 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 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 Methods and materials for containme	: ent a	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).
Small spill Large 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. 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.

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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		
Antimony trioxide	OSHA PEL (1993-06-30) expressed as Sb		
	PEL: Permissible Exposure Level 0.5 mg/m3		
	NIOSH REL (1994-06-01) expressed as Sb		
	Time Weighted Average (TWA) 0.5 mg/m3		
	OSHA PEL 1989 (1989-03-01) expressed as Sb		
	PEL: Permissible Exposure Level 0.5 mg/m3		
	ACGIH TLV (1994-09-01)		
Zinc oxide	OSHA PEL 1989 (1989-03-01)		
	PEL: Permissible Exposure Level 5 mg/m3 Form: Fume		
	Short Term Exposure Limit value for a 15-minute reference		
	period expressed in parts per million or in mg/m3. 10 mg/m3		
	Form: Fume		
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust		
	PEL: Permissible Exposure Level 5 mg/m3 Form: Respirable		
	fraction		

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		OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 5 mg/m3 Form: Fume PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust PEL: Permissible Exposure Level 5 mg/m3 Form: Total dust PEL: Permissible Exposure Level 5 mg/m3 Form: Respirable fraction NIOSH REL (1994-06-01) Time Weighted Average (TWA) 5 mg/m3 Form: Dust and fumes Short Term Exposure Limit value for a 15-minute reference period expressed in parts per million or in mg/m3. 10 mg/m3 Form: Fume Ceiling, is a a limit indicating the maximum concentration of a chemical substances in the breathing zone that should not be exceeded. 15 mg/m3 Form: Dust ACGIH TLV (2003-01-01) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 2 mg/m3 Form: Respirable fraction TLV-STEL: Threshold Limit Value - Short Time Exposure Level 10 mg/m3 Form: Respirable fraction
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures Eye/face protection	:	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
Skin protection		higher degree of protection: safety glasses with side-shields.
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products

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	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

selected respirator.

levels, the hazards of the product and the safe working limits of the

Section 9. Physical and chemical properties

Appearance

Physical state	:	solid [Pellets.]
Color	:	NO PIGMENT
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.
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.

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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	34,600 mg/kg	-
	LD50 Oral	Rat	34,000 mg/kg	-
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Zinc oxide Conclusion/Summary

: Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimony trioxide	Eyes - Mild	Rabbit			-
	irritant				
Zinc oxide	Eyes - Mild	Rabbit		24 hrs	-
	irritant				
	Skin - Mild	Rabbit		24 hrs	-
	irritant				
Conclusion/Summary					
Skin	: N	lixture.Not ful	ly tested.		
Eyes	: N	lixture.Not ful	ly tested.		

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Respiratory	:	Mixture.Not	fully tested.	
<u>Sensitization</u>				
Conclusion/Summary Skin Respiratory	:	Mixture.Not Mixture.Not		
Mutagenicity				
Conclusion/Summary	:	Mixture.Not	fully tested.	
Carcinogenicity				
Conclusion/Summary <u>Classification</u>	:	Mixture.Not	fully tested.	
Product/ingredient name	OSHA	IARC	NTP	
Antimony trioxide		2B		
Reproductive toxicity				
Conclusion/Summary	:	Mixture.Not	fully tested.	
<u>Teratogenicity</u>				
Conclusion/Summary	:	Mixture.Not	fully tested.	
Specific target organ toxicity Not available.	v (single expo	osure)		
Specific target organ toxicity Not available.	v (repeated e	<u>xposure)</u>		
Aspiration hazard Not available.				
Information on the likely rou exposure	tes of :	Not available		
Potential acute health effects				
Eye contact Inhalation Skin contact Ingestion	:	No known sig No known sig No known sig	gnificant effects or critical hazar gnificant effects or critical hazar gnificant effects or critical hazar gnificant effects or critical hazar	rds. rds.
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Symptoms related to the physical, chemical and toxicological characteristics

Eye contactInhalationSkin contactIngestion	No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects and also	o chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects : Potential delayed effects :	Not available. Not available.
Long term exposure	
Potential immediate effects : Potential delayed effects :	Not available. Not available.
Potential chronic health effects	
Conclusion/Summary :	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity 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. 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
Antimony trioxide			
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	Acute LC50 > 530 mg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 > 1,000,000 µg/l Marine water	Fish - Fish	96 h
	Acute EC50 423,450 µg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 560 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute EC50 730 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute EC50 760 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute EC50 740 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute NOEC 200 µg/l Fresh water	Aquatic plants - Algae	4 d
Zinc oxide			
	Acute LC50 2,246,000 µg/l Fresh water	Fish - Fish	96 h
	Acute LC50 1.1 mg/l Fresh water	Fish - Fish	96 h
	Acute LC50 2.525 mg/l Fresh water	Fish - Fish	96 h
	Acute LC50 3.969 mg/l Fresh water	Fish - Fish	96 h
	Acute LC50 98 µg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 0.622 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	10 11
	Acute EC50 1 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 1.25 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 0.481 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute IC50 46 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute IC50 63 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute IC50 1.85 mg/l Marine water	Aquatic plants - Algae	96 h
	Acute IC50 2.97 mg/l Marine water	Aquatic plants - Algae	96 h
	Acute IC50 2.36 mg/l Marine water	Aquatic plants - Algae	96 h
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Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available as	s they are bound within the	e polymer matrix.
Conclusion/Summary	: Chemicals are not readily polymer matrix.	y available as they are bou	nd within the
Persistence and degradability	Ľ		
Conclusion/Summary		y available as they are bou	nd within the
-	polymer matrix.		

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Conclusion/Summary

Chemicals are not readily available as they are bound within the polymer matrix.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Zinc oxide		60,960.00	high

Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC)		
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT 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

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Revision Date 06/02/2016 Print Date 06/03/2016 United States - TSCA 12(b) - Chemical export notification: The **U.S. Federal regulations** : following components are listed: Decabromodiphenvl oxide Benzene, pentabromo(tetrabromophenoxy)-United States - TSCA 4(a) - Final Test Rules: Listed Decabromodiphenyl oxide 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: Listed Benzene, pentabromo(tetrabromophenoxy)-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: Listed Lead 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): Listed Decabromodiphenyl oxide 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 Zinc oxide Antimony trioxide Arsenic Lead United States - EPA Clean water act (CWA) section 311 -Hazardous substances: Listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed

United States - Department of commerce - Precursor chemical: Not listed

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Clean Air Act Section 112(b)	:	Listed
Hazardous Air Pollutants (HAPs)		
Clean Air Act Section 602 Class I	:	Not listed
Substances		
	:	Not listed
Substances		NT . 11 . 1
DEA List I Chemicals (Precursor	:	Not listed
Chemicals)		NT - 11 - 1
DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

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
Arsenic	7440-38-2	1 lb(s)
		0.454 kg

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
Antimony trioxide	10 - 25	АН, СН
Zinc oxide	10 - 25	АН

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Decabromodiphenyl oxide	1163-19-5	25 - 50
	Zinc oxide	1314-13-2	10 - 25
	Antimony trioxide	1309-64-4	10 - 25
Supplier notification	Decabromodiphenyl oxide	1163-19-5	25 - 50
	Zinc oxide	1314-13-2	10 - 25

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	Antimony trioxide		1309-64-4	10 - 25
SARA 313 notifications must not be include copying and redistribution o				
State regulations				
Massachusetts	Decabi	omodiphenyl ony trioxide	nents are listed: oxide	
New York	: The foll		nents are listed:	
New Jersey	: The foll Antime Zinc of	owing compo ony trioxide	nents are listed: oxide	
Pennsylvania	: The foll		nents are listed:	
	Zinc of	cide		
	Decabi	omodiphenyl	oxide	
California Prop. 65 WARNING: This product contains a	chemical know	n to the State	of California to caus	e cancer.
United States inventory (TSCA 8b) : All com	ponents are li	sted or exempted.	
Canada inventory	: All com	ponents are li	sted or exempted.	
International regulations				
International lists	Taiwar Malays EINEC Japan i China i Korea i New Zo	inventory (C ia Inventory S: All compo- nventory: No nventory (IE nventory: No caland Invent	(AICS): Not determ CSNN): Not determ (EHS Register): N nents are listed or ex ot determined. CSC): Not determi ot determined. ory of Chemicals (1 y (PICCS): Not de	ined. fot determined. kempted. ned. NZIoC): Not determined.
Chemical Weapons Convention	: Not list	ed		

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Chemical Weapons Convention	:	Not listed
List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals	:	Not listed
List Schedule III Chemicals		

Section 16. Other information

<u>History</u>		
Date of printing	:	06/03/2016
Date of issue/Date of revision	:	06/02/2016
Date of previous issue	:	05/24/2013
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 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.