P<u>olyOne</u> gsdi

Version Number 1.0 Revision Date 04/26/2016 Page 1 of 14 Print Date 04/28/2016

SAFETY DATA SHEET

SILCOPAS GRAY 47042

Section 1. Identification	n	
GHS product identifier Chemical name CAS number Other means of identification Product type	:	SILCOPAS GRAY 47042 Mixture Mixture FO00014933 liquid
	ance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details	:	GSDI Specialty Dispersions, Inc. 1675 Navarre Road SW, Massillon, Ohio USA 44646
		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 for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions. 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



Version Number 1.0 Revision Date 04/26/2016

Page 2 of 14 Print Date 04/28/2016

Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
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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	:	FO00014933

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	25 - 50	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
0/4.4		



Version Number 1.0	Page 3 of 14
Revision Date 04/26/2016	Print Date 04/28/2016

	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	::	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.
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 att	entio	on 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	on 11	

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$. None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst.
		3/14



Version Number 1.0	Page 4 of 14
Revision Date 04/26/2016	Print Date 04/28/2016

Hazardous thermal decomposition products	:	Decomposition products may include the following materials: 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	:	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	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.			
Large spill	:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.			



Version Number 1.0 Revision Date 04/26/2016

Page 5 of 14 Print Date 04/28/2016

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium dioxide	OSHA PEL 1989 (1989-03-01) 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 :	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls :	

PolyOne. gsdi

Version Number 1.0 Revision Date 04/26/2016 Page 6 of 14 Print Date 04/28/2016

		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	:	Use a properly fitted, air-purifying or air-fed 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

: liquid [Paste.] GREY
Not available.
: Not available.
: Not available.
: Not available.
: Not available.



Version Number 1.0 Revision Date 04/26/2016 Page 7 of 14 Print Date 04/28/2016

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	:	Not available.
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 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



Version Number 1.0 Revision Date 04/26/2016 Page 8 of 14 Print Date 04/28/2016

Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Conclusion/Summary	: Mixtu	re.Not fully tested.		

Irritation/Corrosion

Titanium dioxide Skin - Mild irritant Human 72 hrs - Conclusion/Summary Skin : Mixture.Not fully tested. - Skin : Mixture.Not fully tested. - - Respiratory : Mixture.Not fully tested. - - Sensitization - - - - Conclusion/Summary : Mixture.Not fully tested. - Respiratory : Mixture.Not fully tested. - Mutagenicity - - - - Conclusion/Summary : Mixture.Not fully tested. - - Carcinogenicity - - - - - Conclusion/Summary : Mixture.Not fully tested. - - - Carcinogenicity - - - - - - - Conclusion/Summary : Mixture.Not fully tested. - - - - - - - - - - - - - - - -	Product/ingredient name	Result	Species	Score	Exposure	Observation		
Conclusion/Summary i Mixture.Not fully tested. Eyes i Mixture.Not fully tested. Respiratory i Mixture.Not fully tested. Skin : Mixture.Not fully tested. Gonclusion/Summary : Mixture.Not fully tested. Skin : Mixture.Not fully tested. Respiratory : Mixture.Not fully tested. Mutagenicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Carcinogenicity : Conclusion/Summary Conclusion/Summary : Mixture.Not fully tested. Classification : : Product/ingredient OSHA IARC name : : Titanium dioxide : 2B Reproductive toxicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Teratogenicity : : Conclusion/Summary : Mixture.Not fully tested. Specific target organ toxicity (single exposure) Not available. <td< th=""><th>Titanium dioxide</th><th></th><th>Human</th><th></th><th>72 hrs</th><th>-</th></td<>	Titanium dioxide		Human		72 hrs	-		
Skin : Mixture.Not fully tested. Eyes : Mixture.Not fully tested. Respiratory : Mixture.Not fully tested. Sensitization : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Respiratory : Mixture.Not fully tested. Mutagenicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Carcinogenicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Carcinogenicity : Mixture.Not fully tested. Cassification : Mixture.Not fully tested. Cassification : : Product/ingredient OSHA IARC name : : Titanium dioxide : : Zendouctive toxicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Specific target organ toxicity (single exposure) : <th></th> <th>irritant</th> <th></th> <th></th> <th></th> <th></th>		irritant						
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Skin : Mixture.Not fully tested. Respiratory : Mixture.Not fully tested. Mutagenicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Carcinogenicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Classification : IARC Product/ingredient OSHA IARC Itanium dioxide : 2B Reproductive toxicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Teratogenicity : Mixture.Not fully tested. Conclusion/Summary : Mixture.Not fully tested. Specific target organ toxicity (single exposure) Not available. Not available. Specific target organ toxicity (repeated exposure) Not available. Not available.	Sensitization							
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Carcinogenicity Image: Mixture.Not fully tested. Classification Image: Mixture.Not fully tested. Product/ingredient name OSHA IARC NTP name 2B Image: Mixture.Not fully tested. Image: Mixture.Not fully tested. Reproductive toxicity Image: Mixture.Not fully tested. Image: Mixture.Not fully tested. Conclusion/Summary Image: Mixture.Not fully tested. Image: Mixture.Not fully tested. Specific target organ toxicity (single exposure) Not available. Mixture.Not fully tested. Specific target organ toxicity (repeated exposure) Not available. Not available.	Mutagenicity							
Conclusion/Summary : Mixture.Not fully tested. Product/ingredient OSHA IARC NTP name 2B 2B Reproductive toxicity 2B 2B Reproductive toxicity Conclusion/Summary : Mixture.Not fully tested. Teratogenicity Conclusion/Summary : Mixture.Not fully tested. Specific target organ toxicity (single exposure) Not available. Not available. Specific target organ toxicity (repeated exposure) Not available.	Conclusion/Summary	: N	lixture.Not ful	ly tested.				
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Reproductive toxicity Conclusion/Summary : Mixture.Not fully tested. Teratogenicity Conclusion/Summary : Mixture.Not fully tested. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available.			2B					
Conclusion/Summary : Mixture.Not fully tested. Teratogenicity	Thainum dioxide		20					
Teratogenicity Conclusion/Summary : Mixture.Not fully tested. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available.	Reproductive toxicity							
Conclusion/Summary : Mixture.Not fully tested. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available.	Conclusion/Summary	: N	lixture.Not ful	ly tested.				
Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available.	<u>Teratogenicity</u>							
Not available. Specific target organ toxicity (repeated exposure) Not available.	Conclusion/Summary	: N	lixture.Not ful	ly tested.				
Not available.								
		ty (repeated exp	osure)					
			8/14					



Version Number 1.0 Revision Date 04/26/2016 Page 9 of 14 Print Date 04/28/2016

Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
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.
Symptoms related to the physical, ch	emio	cal and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effects and a	lso c	chronic effects from short and long term exposure
Short term exposure		
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



Version Number 1.0 Revision Date 04/26/2016 Page 10 of 14 Print Date 04/28/2016

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000,000 μg/l	Fish - Fish	96 h
	Marine water		
	Acute LC50 > 1,000 mg/l Fresh water	Fish - Fish	96 h
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 3 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 3.6 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 11 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h

Conclusion/Summary

: Not available.

Persistence and degradability

Conclusion/Summary

: Not available.

Bioaccumulative potential



Version Number 1.0 Revision Date 04/26/2016

Page 11 of 14 Print Date 04/28/2016

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

Mobility in soil

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

Section 13. Disposal considerations

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 b 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 b disposed of in a safe way. Empty containers or liners may retain som 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	:	Consult mode specific transport rules
IMO/IMDG (maritime)	:	Consult mode specific transport rules

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
	11/14

P<u>olyOne</u> gsdi

Version Number 1.0	Page 12 of 14
Revision Date 04/26/2016	Print Date 04/28/2016

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: 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
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.

:



Version Number 1.0 Revision Date 04/26/2016 Page 13 of 14 Print Date 04/28/2016

Composition/information on ingredients

Name	%		Classification
<u>SARA 313</u> Not applicable.			
State regulations			
Massachusetts	:	The following components are lis Silica, amorphous Titanium dioxide	ted:
New York	:	None of the components are listed	1.
New Jersey		The following components are list	
		Titanium dioxide	
Pennsylvania	:	The following components are lis Titanium dioxide	ted:
		Aluminum hydroxide	
		Silica, amorphous	
<u>California Prop. 65</u> WARNING: This product contains a c			
United States inventory (TSCA 8b)	:	All components are listed or exen	npted.
Canada inventory	:	All components are listed or exen	npted.
International regulations			
International lists	:	Taiwan inventory (CSNN): All Malaysia Inventory (EHS Regis EINECS: All components are lis Japan inventory: Not determine China inventory (IECSC): All Korea inventory: All componer	ted or exempted. ed. components are listed or exempted. nts are listed or exempted. micals (NZIoC): All components
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed	
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed	

P<u>olyOne</u> gsdi

Version Number 1.0 Revision Date 04/26/2016 Page 14 of 14 Print Date 04/28/2016

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

Section 16. Other information

History

History		
Date of printing	:	04/28/2016
Date of issue/Date of revision	:	04/26/2016
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate
-		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL 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.