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SAFETY DATA SHEET

X GT-10998-1A

Section 1. Identification		
GHS product identifier		X GT-10998-1A
Chemical name		Mixture
CAS number	-	Mixture
Other means of identification	:	EM10035698
Product type	:	solid
Relevant identified uses of the subst	ance	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).

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



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Signal word	:	No signal word.
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	:	EM10035698

CAS number/other identifiers

Ingredient name	%	CAS number
Tungsten	60 - 100	7440-33-7
Copper	10 - 30	7440-50-8
Carbon black	0.1 - 1	1333-86-4

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



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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.

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 atte	ntio	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



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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 Hazardous thermal decomposition products	:	Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. 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). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for contain	nent ar	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
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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). Avoid release to the environment. 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
Tungsten	NIOSH REL (1994-06-01) Calculated as W
	Time Weighted Average (TWA) 5 mg/m3
	Pollutant concentration that should not be exceeded during
	working hours and which workers are believed to be exposed
	during a period of 15 minutes maximum, without experiencing: a)
	irritation. b) chronic or irreversible tissue damage. c) dependent
	toxic effects of exposure rate. d) Narcosis of sufficient magnitude
	to increase susceptibility to accidents. e) The reduction of ability to
	get to safety by their own means. 10 mg/m3
	ACGIH TLV (1994-09-01) Calculated as W
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 5 mg/m3
	TLV-STEL: Threshold Limit Value - Short Time Exposure Level
	10 mg/m3
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Copper	OSHA PEL 1989 (1989-03-01) Calculated as CuPEL: Permissible Exposure Level 0.1 mg/m3 Form: FumePEL: Permissible Exposure Level 1 mg/m3 Form: Dusts and mistsOSHA PEL (1993-06-30)PEL: Permissible Exposure Level 0.1 mg/m3 Form: FumePEL: Permissible Exposure Level 1 mg/m3 Form: Dusts and mistsNIOSH REL (1994-06-01) Calculated as CuTime Weighted Average (TWA) 1 mg/m3 Form: Dusts and mistsACGIH TLV (1994-09-01)TLV-TWA: Threshold Limit Value - Time weighted average PEL:Permissible Exposure Level 0.2 mg/m3 Form: FumeACGIH TLV (1994-09-01)Calculated as CuTLV-TWA: Threshold Limit Value - Time weighted average PEL:Permissible Exposure Level 1 mg/m3 Form: FumeACGIH TLV (1994-09-01)Calculated as CuTLV-TWA: Threshold Limit Value - Time weighted average PEL:Permissible Exposure Level 1 mg/m3 Form: Dusts and mists
Carbon black	OSHA PEL 1989 (1989-03-01)PEL: Permissible Exposure Level 3.5 mg/m3OSHA PEL (1993-06-30)PEL: Permissible Exposure Level 3.5 mg/m3NIOSH REL (1994-06-01)Time Weighted Average (TWA) 3.5 mg/m3Time Weighted Average (TWA)ACGIH TLV (2010-12-06)TLV-TWA: Threshold Limit Value - Time weighted average PEL:Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction
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	
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
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Eye/face protection	:	clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	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	:	BLACK
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.



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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	
Copper					
	LD50 Oral	Rat	482 mg/kg	-	
Carbon black					
	LD50 Oral	Rat	15,400 mg/kg	-	
Conclusion/Summary	/Summary : Mixture.Not fully tested.				



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Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation		
Tungsten	Eyes - Mild	Rabbit		24 hrs	-		
	irritant						
	Skin - Mild	Rabbit		24 hrs	-		
	irritant						
Conclusion/Summary							
Skin		lixture.Not full					
Eyes		lixture.Not full					
Respiratory	: N	lixture.Not full	ly tested.				
Sensitization							
Conclusion/Summary							
Skin	: N	lixture.Not full	ly tested.				
Respiratory	: N	lixture.Not full	ly tested.				
<u>Mutagenicity</u>							
Conclusion/Summary	: N	lixture.Not full	ly tested.				
Carcinogenicity							
Conclusion/Summary Classification	: N	lixture.Not full	ly tested.				
Product/ingredient name	OSHA	IARC	NTP				
Carbon black		2B					
<u>Reproductive toxicity</u>							
Conclusion/Summary	: N	lixture.Not full	ly tested.				
Teratogenicity							
Conclusion/Summary	: N	lixture.Not full	ly tested.				
Specific target organ toxici Not available.	ty (single exposu	<u>re)</u>					
<u>Specific target organ toxici</u> Not available.	ty (repeated exp	osure)					
Aspiration hazard							



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Not	available.
1101	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, chemical 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 also 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.
Numerical measures of toxicity		

Acute toxicity estimates

<u>PolyOne</u>

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Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure	
Copper				
	Acute LC50 16 µg/l Fresh water	Fish - Bony Fish	96 h	
	Acute LC50 9.4 µg/l Fresh water	Fish - Fathead minnow	96 h	
	Acute LC50 10.3 µg/l Fresh water	Fish - Fathead minnow	96 h	
	Acute LC50 7.56 µg/l Marine water	Fish - Mudskipper	96 h	
	Acute LC50 8.7 µg/l Fresh water	Fish - Bony Fish	96 h	
	Acute EC50 3.1 µg/l Fresh water	Aquatic invertebrates. Water flea	48 h	
	Acute EC50 2.1 µg/l Fresh water	Aquatic invertebrates. Water flea	48 h	
	Acute EC50 4 µg/l Fresh water	Aquatic invertebrates. Water flea	48 h	
	Acute EC50 2.5 µg/l Fresh water	Aquatic invertebrates. Water flea	48 h	
	Acute EC50 3.2 µg/l Fresh water	Aquatic invertebrates. Water flea	48 h	
	Acute EC50 18 µg/l Marine water	Aquatic plants - Diatom	72 h	
	Acute IC50 16 µg/l Fresh water	Aquatic plants - Green algae	72 h	
	Acute EC50 18 µg/l Fresh water	Aquatic plants - Green algae	72 h	
	Acute IC50 13 µg/l Fresh water	Aquatic plants - Green algae	72 h	
	Acute IC50 18 µg/l Marine water	Aquatic plants - Diatom	72 h	
	Chronic NOEC 1.7 µg/l Fresh water	Fish - common carp	28 d	
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Nile tilapia	42 d	
	Chronic NOEC 1.2 µg/l Fresh water	Fish - Nile tilapia	42 d	
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Nile tilapia	42 d	
	Chronic NOEC 0.8 µg/l Fresh	Fish - Nile tilapia	42 d	



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	water		
	Chronic NOEC 30.3 µg/l Fresh water	Aquatic invertebrates. Water flea	21 d
	Chronic NOEC 15 µg/l Fresh water	Aquatic invertebrates. Water flea	21 d
	Chronic NOEC 2 µg/l Fresh water	Aquatic invertebrates. 21 d Water flea	
	Chronic NOEC 29.4 µg/l Fresh water	Aquatic invertebrates. Water flea	21 d
	Chronic NOEC 31.8 µg/l Fresh water	Aquatic invertebrates. Water flea	21 d
Carbon black			
	Acute EC50 37.563 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute LC50 61.547 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
X GT-10998-1A			
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available a	s they are bound within the	e polymer matrix.
Conclusion/Summary	: Chemicals are not readil polymer matrix.	y available as they are bou	nd within the
Persistence and degradability			
Conclusion/Summary	: Chemicals are not readil polymer matrix.	y available as they are bou	nd within the
Conclusion/Summary	: Chemicals are not readil polymer matrix.	y available as they are bou	nd within the
Bioaccumulative potential <u>Mobility in soil</u>			
Soil/water partition coefficien (KOC)	nt : Not available.		
Other adverse effects	: No known significant ef	fects or critical hazards	

Section 13. Disposal considerations



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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

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): Listed Tungsten



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		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 Copper 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 - Flammable 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 Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	RQ for component
Copper	7440-50-8	5,000 lb(s) 2,270 kg

SARA 311/312

Classification

: Not applicable.

Composition/information on ingredients

Name	%	Classification
Tungsten	60 - 100	F, AH
Copper	10 - 30	F, AH
Carbon black	0.1 - 1	СН



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SARA 313

	Product name	CAS number	%
Form R - Reporting	Copper	7440-50-8	10 - 30
requirements			
Supplier notification	Copper	7440-50-8	10 - 30

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.

State regulations		
Massachusetts :	The following components are listed:	
	Tungsten Copper	
New York :	The following components are listed:	
	Copper	
New Jersey :	The following components are listed:	
-	Tungsten	
	Copper	
	Carbon black	
Pennsylvania :	The following components are listed:	
	Tungsten	
	Copper	
	Carbon black	
<u>California Prop. 65</u> WARNING: This product contains a chen	nical known to the State of California to cause cancer.	
······································		
United States inventory (TSCA 8b) :	All components are listed or exempted.	
Canada inventory :	At least one component is not listed in DSL but all such components are listed in NDSL.	
International regulations		
International lists :	Australia inventory (AICS): Not determined.	
	Taiwan inventory (CSNN): Not determined.	
	Malaysia Inventory (EHS Register): Not determined.	
	EINECS: All components are listed or exempted.	
	Japan inventory: Not determined.	
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China inventory (IECSC): All components are listed or exempted. Korea inventory: All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): Not determined.

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

:

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: Not listed

Not listed

Section 16. Other information

History		
Date of printing	:	06/11/2015
Date of issue/Date of revision	:	06/10/2015
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.