

X GT-13462-1A 6.5

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SAFETY DATA SHEET

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Section 1. Identification

GHS product identifier : X GT-13462-1A 6.5

Chemical name: MixtureCAS number: MixtureOther means of identification: EM10036610

Product type : solid

Relevant identified uses of the substance 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: MixtureChemical name: MixtureOther means of identification: EM10036610

CAS number/other identifiers

Ingredient name	%	CAS number
Copper	60 - 100	7440-50-8
Tungsten	10 - 30	7440-33-7

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



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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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at

rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by

medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

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 : In case of inhalation of decomposition products in a fire, symptoms

may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

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)



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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 CO₂.

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:

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Special protective actions for firefighters

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 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

No action shall be taken involving any personal risk or without For non-emergency personnel

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.

For emergency responders

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".

Avoid dispersal of spilled material and runoff and contact with soil, **Environmental precautions**

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 containment and cleaning up

Small spill Move containers from spill area. Vacuum or sweep up material and



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Large spill

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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8).
 Avoid release to the environment.

Advice on general occupational hygiene

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	
Copper	OSHA PEL 1989 (1989-03-01) expressed as Cu	
	PEL: Permissible Exposure Level 0.1 mg/m3 Form: Fume	
	PEL: Permissible Exposure Level 1 mg/m3 Form: Dusts and mists	
	OSHA PEL (1993-06-30)	
	PEL: Permissible Exposure Level 0.1 mg/m3 Form: Fume	
	PEL: Permissible Exposure Level 1 mg/m3 Form: Dusts and mists	
	NIOSH REL (1994-06-01) expressed as Cu	
	Time Weighted Average (TWA) 1 mg/m3 Form: Dusts and mists	
	ACGIH TLV (1994-09-01)	



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	TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.2 mg/m3 Form: Fume ACGIH TLV (1994-09-01) expressed as Cu TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 1 mg/m3 Form: Dusts and mists
Tungsten	NIOSH REL (1994-06-01) expressed as W Time Weighted Average (TWA) 5 mg/m3 Short Term Exposure Limit value for a 15-minute reference period expressed in parts per million or in mg/m3. 10 mg/m3 ACGIH TLV (1994-09-01) expressed 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

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

: 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

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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. pН 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.

Section 10. Stability and reactivity



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No specific test data related to reactivity available for this product or Reactivity

its ingredients.

Stable under recommended storage and handling conditions (see **Chemical stability**

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.

Under normal conditions of storage and use, hazardous decomposition **Hazardous decomposition** products

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	-
Tungsten				

Mixture.Not fully tested. Conclusion/Summary

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Tungsten	Eyes - Mild irritant	Rabbit		24 hrs	-
	Skin - Mild irritant	Rabbit		24 hrs	-

Conclusion/Summary

Mixture.Not fully tested. Skin Mixture.Not fully tested. **Eyes** Respiratory Mixture.Not fully tested.

Sensitization

Conclusion/Summary

Skin Mixture.Not fully tested.



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Respiratory : Mixture.Not fully tested.

Mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

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.

Aspiration hazard

Not available.

Information on the likely routes of : Not available.

exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

Skin contact : No known significant effects or critical hazards.

Ingestion : 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



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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

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Copper			
	Acute LC50 16 µg/l Fresh water	Fish - Fish	96 h
	Acute LC50 9.4 µg/l Fresh water	Fish - Fish	96 h
	Acute LC50 10.3 µg/l Fresh water	Fish - Fish	96 h
	Acute LC50 7.56 µg/l Marine	Fish - Fish	96 h
	water		
	Acute LC50 8.7 µg/l Fresh water	Fish - Fish	96 h
	Acute EC50 3.1 µg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 2.1 µg/l Fresh water	Aquatic invertebrates.	48 h

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		D1!	
	A . EC50.4 /I.E. 1	Daphnia	40.1
	Acute EC50 4 μg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 2.5 µg/l Fresh water	Aquatic invertebrates.	48 h
	Acute EC50 2.5 µg/111esii watei	Daphnia	40 11
	Acute EC50 3.2 µg/l Fresh water	Aquatic invertebrates.	48 h
	10	Daphnia	
	Acute EC50 1.6 µg/l Fresh water	Aquatic invertebrates.	48 h
		Crustacean Order	
	Acute LC50 0.072 µg/l Marine	Aquatic invertebrates.	48 h
	water	Crustacean Order	
	Acute EC50 1 µg/l Fresh water	Aquatic invertebrates.	48 h
		Crustacean Order	
	Acute EC50 1.6 μg/l Fresh water	Aquatic invertebrates.	48 h
	FG50.1.6 7.7 1	Crustacean Order	40.1
	Acute EC50 1.6 µg/l Fresh water	Aquatic invertebrates.	48 h
	Acute EC50 18 μg/l Marine water	Crustacean Order	72 h
	Acute IC50 18 µg/l Marine water Acute IC50 16 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute EC50 18 µg/l Fresh water	Aquatic plants - Algae Aquatic plants - Algae	72 h
	10	1 1	72 h
	Acute IC50 13 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute IC50 18 μg/l Marine water Acute EC50 1,100 μg/l Fresh water	Aquatic plants - Algae Aquatic plants -	96 h
	Acute EC30 1,100 µg/1 Flesh water	Aquatic plants -	90 11
	Acute IC50 5.4 mg/l Marine water	Aquatic plants -	72 h
	Acute 1C50 5.4 mg/1 Warme water	Aquatic plants -	72 11
	Acute No-observable-effect-	Aquatic plants - Algae	4 d
	concentration 94 µg/l Fresh water		
	Acute No-observable-effect-	Aquatic plants - Algae	3 d
	concentration 2.5 µg/l Marine		
	water		
	Acute No-observable-effect-	Aquatic plants - Algae	3 d
	concentration 3 µg/l Marine water		
	Acute No-observable-effect-	Aquatic plants - Algae	3 d
	concentration 3.2 µg/l Fresh water		
	Acute No-observable-effect-	Aquatic plants - Algae	4 d
	concentration 0.013 mg/l Marine		
	Water	A quatia plants	2.4
	Acute No-observable-effect- concentration 7 mg/l Fresh water	Aquatic plants - Aquatic plants	3 d
	Chronic No-observable-effect-	Fish - Fish	28 d
	concentration 1.7 µg/l Fresh water	1 1511 - 1 1511	20 U
	Chronic No-observable-effect-	Fish - Fish	42 d
	concentration 0.8 µg/l Fresh water	11011	12 4
	Chronic No-observable-effect-	Fish - Fish	42 d
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	10 00		
	concentration 1.2 µg/l Fresh water		
	Chronic No-observable-effect-	Fish - Fish	42 d
	concentration 0.8 µg/l Fresh water		
	Chronic No-observable-effect-	Fish - Fish	42 d
	concentration 0.8 µg/l Fresh water		
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 30.3 µg/l Fresh water	Daphnia	
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 15 µg/l Fresh water	Daphnia	
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 2 µg/l Fresh water	Daphnia	
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 29.4 µg/l Fresh water	Daphnia	
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 31.8 µg/l Fresh water	Daphnia	
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 0.02 mg/l Fresh	Crustacean Order	
	water		
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Remarks - Acute - Aquatic	Chemicals are not readily available as	s they are bound within the	e polymer matrix.
invertebrates.:			

Conclusion/Summary

: Chemicals are not readily available as they are bound within the

polymer matrix.

Persistence and degradability

Conclusion/Summary

: Chemicals are not readily available as they are bound within the

polymer matrix.

Conclusion/Summary

: Chemicals are not readily available as they are bound within the

polymer matrix.

Bioaccumulative potential Mobility in soil

Other adverse effects

Soil/water partition coefficient

(KOC)

: Not available.

: 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



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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

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: Listed C.I. Solvent

Black 7

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



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United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Tungsten

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: 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

 $\label{thm:commerce-Precursor} \textbf{United States-Department of commerce-Precursor chemical:}$

Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I

Substances

Clean Air Act Section 602 Class II

Substances

DEA List I Chemicals (Precursor

Chemicals)

DEA List II Chemicals (Essential

Chemicals)

Listed

Not listed

Not listed

Not listed

Not fisted

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
Copper	60 - 100	АН



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Tungsten	10 - 30	AH

SARA 313

	Product name	CAS number	%
Form R - Reporting	Copper	7440-50-8	60 - 100
requirements			
Supplier notification	Copper	7440-50-8	60 - 100

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:

Copper Tungsten

New York : The following components are listed:

Copper

New Jersey : The following components are listed:

Copper Tungsten

Pennsylvania: The following components are listed:

Copper

Tungsten

California Prop. 65

This PolyOne product does not contain any chemical known to the State of California to cause cancer, or birth defects or other reproductive harm, in concentrations that require a warning notice under California's Proposition 65. This statement relies in part on information provided by the buyer of this PolyOne product. PolyOne does not control or have complete knowledge of the end uses to which that buyer or any other entity in the chain of distribution and marketing may put this PolyOne product. Therefore, the buyer of this PolyOne product, each entity that uses this PolyOne product in formulating another product, and each entity in the chain of distribution and marketing of any product that includes the material in this PolyOne product must make its own decision as to giving a Proposition 65 warning.

United States inventory (TSCA 8b) : All components are listed or exempted.

Canada inventory : All components are listed or exempted.

International regulations

International lists : Australia inventory (AICS): Not determined.

Taiwan inventory (CSNN): All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined.



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EINECS: All components are listed or exempted.

Japan inventory: Not determined.

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): All components are listed or

exempted.

Chemical Weapons Convention

List Schedule I Chemicals

Chemical Weapons Convention

List Schedule II Chemicals

Chemical Weapons Convention

List Schedule III Chemicals

Not listed

Not listed

: Not listed

Section 16. Other information

History

Date of printing: 10/21/2015Date of issue/Date of revision: 10/20/2015Date of previous issue: 00/00/0000Version: 1.0

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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 above-named 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.



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