ne.

Version Number 1.0 Revision Date 09/21/2015 Page 1 of 15 Print Date 11/23/2015

SAFETY DATA SHEET

AMPS 223651

Section 1. Identification		
		ANDS 222651
GHS product identifier	:	AMPS 223651
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10223651
Product type	:	solid
Relevant identified uses of the subst	ance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
		DOL MONT CORDOR (TYON
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



SAFETY DATA SHEET AMPS 223651

Version Number 1.0 Revision Date 09/21/2015 Page 2 of 15 Print Date 11/23/2015

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	:	CC10223651

CAS number/other identifiers

Ingredient name	%	CAS number
Zinc pyrithione	5 - 10	13463-41-7

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.



SAFETY DATA SHEET AMPS 223651

Version Number 1.0	Page 3 of 15
Revision Date 09/21/2015	Print Date 11/23/2015
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, acut	te and delayed
Potential acute health effects	
Eye contact Inhalation	 No known significant effects or critical hazards. 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 atten	ntion 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)

Section 5. Fire-fighting measures



Version Number 1.0 Revision Date 09/21/2015 Page 4 of 15 Print Date 11/23/2015

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides 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	:	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
4/15		

Ine.

Version Number 1.0 Revision Date 09/21/2015

Page 5 of 15 Print Date 11/23/2015

and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, 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

None.		
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
		5/15



SAFETY DATA SHEET AMPS 223651

Version Number 1.0	Page 6 of 15
Revision Date 09/21/2015	Print Date 11/23/2015

Eye/face protection	÷	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 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	:	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.



SAFETY DATA SHEET AMPS 223651

Version Number 1.0 Revision Date 09/21/2015

Page 7 of 15 Print Date 11/23/2015

Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
		Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Zinc pyrithione				
	LD50 Oral	Rat	177 mg/kg	-
	LC50 Inhalation	Rat	0.14 mg/l	4 h
	LD50 Dermal	Rabbit	100 mg/kg	-
Conclusion/Summary	• Mixtu	re Not fully tested		-

Conclusion/Summary

Mixture.Not fully tested.



Version Number 1.0 Revision Date 09/21/2015 Page 8 of 15 Print Date 11/23/2015

Irritation/Corrosion

Conclusion/Summary		
Skin	:	Mixture.Not fully tested.
Eyes	:	Mixture.Not fully tested.
Respiratory	:	Mixture.Not fully tested.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Zinc pyrithione	-	guinea pig	Did not cause
			sensitisation on
~			laboratory animals.
Conclusion/Summary	Minter No. 6	- 11 4 4 1	
Skin Dominatory	: Mixture.Not f : Mixture.Not f		
Respiratory	: Mixture.Not f	uny tested.	
Mutagenicity			
Conclusion/Summary	: Mixture.Not f	ully tested.	
Carcinogenicity			
Conclusion/Summary	: Mixture.Not f	ully tested.	
<u>Reproductive toxicity</u>			
Conclusion/Summary	: Mixture.Not f	ully tested.	
Teratogenicity			
Conclusion/Summary	: Mixture.Not f	ully tested.	
Specific target organ toxicit Not available.	y (single exposure)		
Specific target organ toxicit Not available.	y (repeated exposure)		
Aspiration hazard Not available.			
Information on the likely row exposure	utes of : Not available.		
caposul t			

8/15



Version Number 1.0 Revision Date 09/21/2015 Page 9 of 15 Print Date 11/23/2015

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. No known significant effects or critical hazards. Skin contact : 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. : No specific data. Ingestion : Delayed and immediate effects and also 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. : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Teratogenicity : **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.

<u>PolyOne</u>

Version Number 1.0 Revision Date 09/21/2015 Page 10 of 15 Print Date 11/23/2015

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Zinc pyrithione			
	Acute LC50 43 µg/l Marine water	Fish - Indian Medaka	96 h
	Acute LC50 98.2 mg/l Marine	Fish - Red sea bream	96 h
	water		
	Acute LC50 0.00268 mg/l Fresh	Fish - Fathead minnow	96 h
	water		
	Acute LC50 0.4 mg/l Marine water	Fish - Sheepshead	96 h
		minnow	
	Acute LC50 0.0036 mg/l Fresh	Fish - Rainbow	96 h
	water	trout, donaldson trout	
	Acute EC50 61 µg/l Fresh water	Aquatic invertebrates.	48 h
		Water flea	
	Acute LC50 75 µg/l Fresh water	Aquatic invertebrates.	48 h
		Water flea	
	Acute EC50 72 µg/l Fresh water	Aquatic invertebrates.	48 h
		Water flea	
	Acute LC50 98 µg/l Fresh water	Aquatic invertebrates.	48 h
		Water flea	
	Acute EC50 0.00825 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Water flea	
	Acute EC50 1.9 µg/l Marine water	Aquatic plants - Diatom	96 h
	Acute EC50 0.51 µg/l Marine	Aquatic plants - Diatom	96 h
	water		
	Acute EC50 1.7 µg/l Marine water	Aquatic plants - Diatom	96 h
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 0.0027 mg/l Marine	Water flea	
	water		
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 0.0027 mg/l Marine	Water flea	
	water		
AMPS 223651			
Remarks - Acute - Aquatic	Chemicals are not readily available a	s they are bound within the	polymer matrix
invertebrates.:			
Conclusion/Summary	: Chemicals are not readil	y available as they are bour	nd within the

polymer matrix.

Persistence and degradability



SAFETY DATA SHEET AMPS 223651

Version Number 1.0	Page 11 of 15
Revision Date 09/21/2015	Print Date 11/23/2015

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

Product/ingredient name	LogPow	BCF	Potential
Zinc pyrithione	0.9	11.00	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

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.

<u>olyOne</u>

Version Number 1.0 Revision Date 09/21/2015

Page 12 of 15 Print Date 11/23/2015

IMO/IMDG (maritime) : Not classified as dangerous good under transport regulations.

Section	15.	Regula	torv	inforr	nation
	IU •				

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) - Proposed test rules: 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(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(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Zinc pyrithione United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I Substances	:	Not listed
	:	Not listed
Clean Air Act Section 602 Class II Substances DEA List I Chemicals (Precursor	:	Not listed
DEA LIST I CHEINICAIS (Frecursor	:	INOL IISIEU



Version Number 1.0 Revision Date 09/21/2015 Page 13 of 15 Print Date 11/23/2015

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.

Composition/information on ingredients

Name	%	Classification
Zinc pyrithione	5 - 10	AH

SARA 313

	Product name	CAS number	%
Form R - Reporting	Zinc pyrithione	13463-41-7	5 - 10
requirements			
Supplier notification	Zinc pyrithione	13463-41-7	5 - 10

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	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: The following components are listed: Zinc pyrithione
Pennsylvania	: The following components are listed: Zinc pyrithione

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.



SAFETY DATA SHEET AMPS 223651

Version Number 1.0 Revision Date 09/21/2015

Page 14 of 15 Print Date 11/23/2015

United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	Not determined.
International regulations		
International lists	:	 Australia inventory (AICS): Not determined. Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined. EINECS: Not determined. Japan inventory: Not determined. China inventory (IECSC): Not determined. Korea inventory: Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined.
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention	:	Not listed
List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

Section 16. Other information

History		
Date of printing	:	11/23/2015
Date of issue/Date of revision	:	09/21/2015
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



Version Number 1.0 Revision Date 09/21/2015 Page 15 of 15 Print Date 11/23/2015

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.