

Product Name	: POLYFLOX 412	Issue Date	: 25 <sup>th</sup> July 2016
Reference No	: Version 16.01	Replaces	: None

### 1. IDENTIFICATION

<b>GHS Product Identifier</b>	POLYFLOX 412
<b>Supplier Name</b>	Integra Water Treatment Solutions
<b>Address</b>	Unit B/195 Port Hacking Road, Miranda NSW 2228
<b>Telephone</b>	(02) 9574 0000
<b>Fax</b>	(02) 9574 0011
<b>Emergency Contact</b>	1300 880 735
<b>Recommended Use</b>	A blend of polymers used in wastewater treatment processes.

### 2. HAZARD IDENTIFICATION

<b>Classification of the substance or mixture</b>	Classified as non-Hazardous according to the criteria of GHS. Classified as non-Dangerous Goods according to ADG Code. This material is classified as <b>non-HAZARDOUS</b> according to the criteria of Safe Work Australia.
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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Ingredients	Name	CAS	Proportion
	Polyacrylamide/Polyacrylate emulsion	9003-05-8	30-60 %

### 4. FIRST AID MEASURES

<b>Inhalation</b>	Not normally an inhalation risk. However, if symptoms occur, remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop, seek medical attention.
<b>Ingestion</b>	If swallowed, give 2 glasses of water to drink. IMMEDIATELY call a physician. Never give anything by mouth to an unconscious person.
<b>Skin</b>	Wash affected skin areas thoroughly with soap and water. Remove and wash contaminated clothing thoroughly. Do not take clothing home to be laundered. Get medical attention if symptoms persist.
<b>Eye Contact</b>	IMMEDIATELY flush eye(s) with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.
<b>Advice to Doctor</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Carbon dioxide or dry chemical.
<b>Unsuitable Extinguishing Media</b>	Do not use water as material will become slippery and increases in volume, making clean up difficult.
<b>Hazard from Combustion Products</b>	Non-combustible.
<b>Specific Hazards</b>	Combustion products – Carbon dioxide, carbon monoxide.
<b>Precautions</b>	Fire-fighters use Self-Contained Breathing Apparatus (SCBA).

### 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	Slippery when wet. Wear compatible, chemically resistant gloves, eye protection (glasses or full face safety shield) or safety shoes. If exposed to
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material during clean-up operations, remove all contaminated clothing and wash exposed skin areas with soap and water. See FIRST AID PROCEDURES Section for further information. Protective clothing made of the following material should be worn to avoid skin contact:

- Butyl rubber, Nitrile or PVC.

### Clean-up & Disposal

Do not use water to wash clean spills. For small spills, use vermiculite, sand or other non-combustible absorbent to soak up, sweep and place in container for disposal. Wash spill area with plenty of water to sewer. Confirm with appropriate water authority for large spills. Discharge, treatment and disposal may be subject to federal, state or local laws and these should be consulted before discharge.

## 7. HANDLING AND STORAGE

### Safe Handling

In use, avoid contact with chemical listed as hazardous reactions.

### Safe Storage

Store away from oxidising agents. Store in a dry place avoiding iron containers. Keep in a cool dry place (0 to 30 °C). Keep away from sources of ignition. Freezing will affect the physical condition and may damage the material.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### National Exposure Standards

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists. No exposure limits set. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Use this general information to help develop specific control measures. Ensure that control systems are properly designed and maintained and comply with occupational, environmental, fire, and other applicable regulations.

### Biological Limit Values

No biological limit allocated.

### Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure, then a half face-piece respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye Protection

Safety glasses or goggles should be worn as described in Australian Standard AS/ANZ 1337 – Eye Protectors for Industrial Applications.

### Hand Protection

Butyl, neoprene or nitrile gloves are recommended when using this product.

### Body Protection

Suitable workwear should be worn to protect personal clothing. When large quantities are handled, the use of plastic aprons and rubber boots is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Viscous milky white liquid

### Boiling Point

Approximately 100 °C

### Melting Point

Not applicable

### Solubility in Water

Soluble up to 5 g/L. However, solution becomes viscous.

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<b>Specific Gravity</b>	1.07 at 20 °C approximately
<b>pH Value</b>	4.00 to 8.00 approximately
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (Air=1)</b>	Not applicable
<b>Flash Point</b>	Does not flash
<b>Flammability</b>	Does not ignite
<b>Ignition Temperature</b>	Not applicable
<b>Flammable Limits (Lower)</b>	Not applicable
<b>Flammable Limits (Upper)</b>	Not applicable

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions of use, storage and temperature.
<b>Conditions to Avoid</b>	Extreme temperatures.
<b>Incompatible Materials</b>	Strong oxidising agents, strong acids and strong bases.
<b>Hazardous Decomposition Products</b>	Hydrogen chloride gas, nitrogen oxides and carbon oxides.
<b>Hazardous Polymerization</b>	Will not occur.

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	As product: Rat: LD <sub>50</sub> , >5000 mg/kg approximately.
<b>Inhalation</b>	Inhalation may irritate the nose, throat and lungs.
<b>Ingestion</b>	May cause nausea, vomiting, diarrhoea, dizziness and convulsions.
<b>Skin</b>	Prolonged contact may cause irritation and/or dermatitis.
<b>Eye</b>	Eye contact may cause severe irritation.
<b>Chronic Health Effects</b>	Long term exposure may result in dermatitis.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Daphnia magna	(48 hrs) EC <sub>50</sub> , >50 mg/L
	Algae	Algal inhibition tests are not appropriate. The flocculating characteristics of the product interfere directly in the test medium, preventing homogeneous, which invalidates the test.
	Hydrolysis	At natural pHs (>6), the polymer degrades due to hydrolysis to more than 70 % in 28 days. The hydrolysis products are not harmful to aquatic organisms.
<b>Persistence/Degradability</b>	Not readily biodegradable.	
<b>Mobility</b>	No information available on mobility for this product.	
<b>Bioaccumulative Potential</b>	No information available on bioaccumulation for this product.	
<b>Environmental Protection</b>	Do not allow it to enter waterways. The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.	

### 13. DISPOSAL CONSIDERATIONS

<b>Method</b>	Can be landfilled or incinerated, when in compliance with local regulations. For large quantities, notify your local waste management authority for specific regulations.
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#### 14. TRANSPORT INFORMATION

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<b>Transport Information</b>	Classified as non-dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> Edition).
<b>Special Precautions</b>	Store in tightly closed containers in a cool area separated from normal work areas. The storage area should have adequate independent ventilation and have no sources of heat or sparks.

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#### 15. REGULATORY INFORMATION

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<b>Poisons Schedule Number</b>	Not scheduled.
<b>Packaging and Labelling</b>	As required by the ADG Code and Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

The ingredients contained in this product listed on the Australian Inventory of Chemical Substances (AICS).

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#### 16. OTHER INFORMATION

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<b>Date Prepared</b>	25 <sup>th</sup> July 2016
<b>Abbreviations</b>	GHS – Globally Harmonised System of Classification and Labelling of Chemicals ADG – Australian code for the Transport of Dangerous Goods by Road and Rail LD <sub>50</sub> (Lethal Dose) – Amount of ingested product that kills 50% of a test sample. EC <sub>50</sub> (Half Maximal Effective Concentration) – Concentration of a drug that gives half-maximal response.
<b>Others</b>	This information summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider this information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

...END OF SDS...