

Product Name	: POLYFLOX 121	Issue Date	: 25 <sup>th</sup> November 2017
Reference No	: Version 17.01	Replaces	: None

### 1. IDENTIFICATION

<b>GHS Product Identifier</b>	POLYFLOX 121
<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
	Distillates (Petroleum), Hydrotreated Light	64742-47-8	10-30 %
	Poly (oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-branched	69011-36-5	1-10 %
	Other ingredients determined not to be hazardous	Not required	Balance

### 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</b>	Non-combustible liquid.

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### Products

**Specific Hazards** Combustion products – carbon dioxide, carbon monoxide.

**Precautions** Fire-fighters use Self-Contained Breathing Apparatus (SCBA).

### 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Slippery when wet. Wear compatible, chemically resistant gloves, eye protection (glasses or full face safety shield) and safety shoes. If exposed to 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. For large spills, confirm with appropriate water authority. 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.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Viscous milky white liquid
<b>Boiling Point</b>	Approximately 100 °C
<b>Melting Point</b>	Not applicable
<b>Solubility in Water</b>	Soluble in water up to 5 g/L. Solution becomes viscous.
<b>Specific Gravity</b>	1.07 to 1.12 at 20 °C approximately
<b>pH Value</b>	4 to 8 approximately
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (Air=1)</b>	No data
<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
<b>Conditions to Avoid</b>	Avoid temperature extremes, especially frost and freezing conditions.
<b>Incompatible Materials</b>	Oxidising materials. May cause exothermic reaction.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce: 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 or 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>	Acute Toxicity to Fish: (96hrs) Fish: LC50, 10-100 mg/L (Estimated)
	Acute Toxicity to (48hrs) Daphnia: EC50, 10-100 mg/L (Estimated)
	Invertebrates:
	Acute Toxicity to Algae: Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium, preventing homogenous distribution which invalidates the test.
	Chronic Toxicity to No data available.
	Fish:
	Chronic Toxicity to No data available.
	Invertebrates:
	Toxicity to No data available.
	Microorganisms:
	Effects on Terrestrial Organisms: No data available. Readily biodegradable, exposure to soil is unlikely.

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	Sediment Toxicity:	No data available. Readily biodegradable, exposure to sediment is unlikely.
<b>Persistence/Degradability</b>		Readily biodegradable.
<b>Mobility</b>		No information available on mobility for this product.
<b>Bioaccumulative Potential</b>		Hydrolysis: At pHs (>6), the polymer degrades due to hydrolysis to more than 70% in 28 days.
<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 land filled or incinerated, when in compliance with local regulations. For large quantities, notify your local waste management authority for specific regulations.
<b>Precautions</b>	Contact a specialist disposal company or the local waste regulator for advice.

### 14. TRANSPORT INFORMATION

<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.

### 15. REGULATORY INFORMATION

<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).

### 16. OTHER INFORMATION

<b>Date Prepared</b>	25 <sup>th</sup> November 2017
<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...