

Product Name	: POLYFLOX 185	Issue Date	: 25 th July 2016
Reference No	: Version 16.01	Replaces	: None

1. IDENTIFICATION

GHS Product Identifier	POLYFLOX 185
Supplier Name	Integra Water Treatment Solutions
Address	Unit B/195 Port Hacking Road, Miranda NSW 2228
Telephone	(02) 9574 0000
Fax	(02) 9574 0011
Emergency Contact	1300 880 735
Recommended Use	A blend of potable grade anionic polymers used in wastewater treatment processes.

2. HAZARD IDENTIFICATION

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

Composition Ingredients	Name	CAS	Proportion
	Anionic Polyacrylamide	157856-36-5	>60 %

4. FIRST AID MEASURES

Inhalation	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.
Ingestion	If swallowed, give 2 glasses of water to drink. IMMEDIATELY call a physician. Never give anything by mouth to an unconscious person.
Skin	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.
Eye Contact	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.
Advice to Doctor	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Carbon dioxide or dry chemical
Unsuitable Extinguishing Media	Do not use water as material will become slippery and increases in volume, making clean up difficult.
Hazard from Combustion Products	Non-combustible liquid.
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
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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. 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 Engineering Controls

No biological limit allocated.

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

White granular solid

Boiling Point

Approximately 100 °C

Melting Point

Not applicable

Solubility in Water

Soluble

Specific Gravity

1.07 to 1.12 at 20 °C approximately

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pH Value	4.00 to 9.00 at 5 g/L
Vapour Pressure	Not applicable
Vapour Density (Air=1)	No data
Approximate Bulk Density	0.80
Flash Point	Does not flash
Flammability	Does not ignite
Ignition Temperature	Not applicable
Flammable Limits (Lower)	Not applicable
Flammable Limits (Upper)	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to Avoid	Avoid temperature extremes, especially frost and freezing conditions.
Incompatible Materials	Oxidising materials. May cause exothermic reaction.
Hazardous Decomposition Products	Thermal decomposition may produce: Hydrogen chloride gas, nitrogen oxides and carbon oxides.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

Ecotoxicity	Daphnia magna Algae	(48hrs) EC ₅₀ , >50 mg/L. 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 pH (>6), the polymer degrades due to hydrolysis to more than 70 % in 28 days. The hydrolysis products are not harmful to aquatic organisms.
Persistence/Degradability	Not readily biodegradable.	
Mobility	No information available on mobility for this product.	
Bioaccumulative Potential	Hydrolysis: At natural pHs (>6), the polymer degrades due to hydrolysis to more than 70% in 28 days.	
Environmental Protection	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

Method	Can be land filled or incinerated, when in compliance with local regulations. For large quantities, notify your local waste management authority for specific regulations.
Precautions	Contact a specialist disposal company or the local waste regulator for advice.

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14. TRANSPORT INFORMATION

Transport Information	Classified as non-dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th Edition).
Special Precautions	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

Poisons Schedule Number	Not scheduled.
Packaging and Labelling	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

Date Prepared	25 th July 2016
Abbreviations	GHS – Globally Harmonised System of Classification and Labelling of Chemicals ADG – Australian code for the Transport of Dangerous Goods by Road and Rail LD ₅₀ (Lethal Dose) – Amount of ingested product that kills 50% of a test sample. EC ₅₀ (Half Maximal Effective Concentration) – Concentration of a drug that gives half-maximal response.
Others	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...