

Product Name	: POLYFLOX 1045	Issue Date	: 25 th July 2016
Reference No	: Version 16.01	Replaces	: None

1. IDENTIFICATION

GHS Product Identifier	POLYFLOX 1045
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 processing aid for industrial applications.

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	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Cationic Water Soluble Polymer	69418-26-4	>60 %

4. FIRST AID MEASURES

Inhalation	No hazards which require special first aid measures.
Ingestion	No hazards which require special first aid measures. This product is not considered toxic based on laboratory animals.
Skin	No hazards which require special first aid measures. Wash affected skin areas thoroughly with soap and water. 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. Get medical attention if symptoms persist.
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.
Specific Hazards	Not available.
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
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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 Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of the workday.

Safe Storage Keep in a cool dry place (0 to 30 °C).

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 Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure, then dust masks are recommended where concentration of total dust is more than 10mg/m³.

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

Hand Protection Rubber 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	Not available
Melting Point	Not available
Solubility in Water	Not available
Specific Gravity	Not available
pH Value	2.50 to 4.50 at 5 g/L
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	Does not flash
Flammability	Does not ignite
Ignition Temperature	Not applicable
Flammable Limits (Lower)	Not applicable
Flammable Limits (Upper)	Not applicable

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10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Extreme temperatures.
Incompatible Materials	Avoid contact with oxidising and reducing agents.
Hazardous Decomposition Products	Not known.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	As product: Rat: LD ₅₀ , >5000 mg/kg approximately.
Inhalation	The product is not expected to be toxic by inhalation.
Ingestion	No information available.
Skin	The results of testing on rabbits showed this material is non-toxic even at high dose levels.
Eye	Testing conducted to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects.
Chronic Health Effects	A two-year study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish	(96 hrs) LC ₅₀ , >10-100 mg/L
	Daphnia	(48 hrs) EC ₅₀ , >50 mg/L
	Algae	Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere in the test medium, preventing homogeneous distribution, 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.
Persistence/Degradability	No information available on persistence/degradability for this product.	
Mobility	No information available on mobility for this product.	
Bioaccumulative Potential	Does not bioaccumulate.	
Environmental Protection	Do not allow it to enter waterways.	

13. DISPOSAL CONSIDERATIONS

Method	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

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

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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 25th 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
LD₅₀ (Lethal Dose) – Amount of ingested product that kills 50% of a test sample.
LC₅₀ (Lethal Concentration) – Lethal concentration required to kill 50% of a test sample.
EC₅₀ (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...