Safety Data Sheet

1. Identification of the Material and Supplier

Product Name:	**MaxiFlox® 540H**
Supplier:	Science Developments Pty Ltd
ABN:	96 001 815 363
Address:	Unit 1, 8 Turbo Road Kings Park NSW 2148 AUSTRALIA
Contact Details:	+61 (2) 9622 5185 projects@scidev.com.au
Emergency Telephone:	13 11 26 (Poison Information Hotline)
Date:	17 May 2019

2. Information of Ingredients

Product Name: **Anionic Polyacrylamide**

Ingredient	Content	CAS No.	EC no.
Polyacrylamide	≥90%	9003-05-8	/
Water	≤10%	7732-18-5	231-791-2

3. Hazards Identification

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail: NON-DANGEROUS SUBSTANCE.
Based on available information, not classified as hazardous to Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

Poisons Schedule (SUSMP): Non-allocated

Appearance and Odour:
Colour: White
Appearance: Granular
Powder Odour: Odourless

Statement of Hazard: WARNING: May cause skin and eye irritation. Spill of this product are very slippery when wet.

Potential Health Effects:
Effects of Exposure
Acute oral (rat) and dermal (rabbit) LD50 values are estimated to be greater than 2,000 mg/Kg and greater than 2,000 mg/Kg, respectively. The 4-hour inhalation LC50 (rat) value is estimated to be greater than 20 mg/L. Direct contact with this material can cause moderate skin and mild eye irritation.

4. First Aid Measures

Contact with skin:	Wash with plenty of water and soap, if irritation occurs seek medical advice.
Contact with Eyes:	Wash immediately with water for at least 15 minutes. If there is any irritation, OBTAIN IMMEDIATELY MEDICAL ATTENTION.
Swallowing:	Do not induce vomiting. Do not give anything to an unconscious person. Check for breathing and pulse, if present, place in the recovery position and obtain medical attention. If conscious rinse out the mouth with water. Give 3⁄4 of litre of water to drink immediately and repeat drinks of water at a rate of a cupful (approx. 250 mL) every 10 minutes. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety data sheet.
Inhalation:	Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well-ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

5. Fire Fighting Measures

Recommended extinguishers:	CO2, Foam, Chemical powders, according to the materials involved in the fire. Avoid to use sprayed water, because of the slippery properties of the wet product.
Extinguishers not to be used:	None in particular.
Risks arising from combustion:	Avoid inhaling the fumes. Dust may be explosive if mixed with air in critical proportion and in the presence of a source of ignition.
Protective equipment:	Firefighters, and others exposed, use protection for the respiratory tract.

6. Fire Fighting Measures

Measures for personal safety:	Use gloves and protective clothing. Avoid dust formation. Wear protective dust mask.
Environmental measures:	Limit leakages with earth or sand. If the product has escaped into a watercourse, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.
Cleaning methods:	Sweep up and shovel into a suitable container for disposal. Residues or small spillages should be hosed away completely with plenty of water. Spilled product which becomes wet or spilled aqueous solution create a hazard because of the slippery nature. The spillage should be contained with earth or sand and removed for disposal.

7. Handling & Storage

Handling precautions:	As with many organic powders flammable dust clouds may be formed. Avoid creating dust and keep away from sources of ignition. Do not breathe dust. Do not eat, drink or smoke while working. Remove contaminated clothing immediately and launder before reuse. Wash hands after use.
Incompatible materials:	None in particular. Material is hygroscopic and should not be exposed to moisture.
Storage conditions:	Instructions as regards storage premises: Store the product in a well-ventilated area, dry place. Avoid wet and humid conditions. Avoid extremes of temperature. Maintain good housekeeping to control accumulations.

8. Exposure Controls/Personal Protection

Control Parameters:	No value assigned for this specific material by Safe Work Australia.
Exposure Limit (ACGIH):	10 mg/m3- 8 hour TWA total inhalable dust 4 mg/m3- 8 hour TWA total respirable dust
Precautionary measures:	Give adequate ventilation to the premises where the product is stored and/or handled to ensure ventilation is adequate to maintain air concentration below Workplace Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep bag closely tight when not in use.
Respiratory protection:	Where exposures are below the established limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.
Protection for hands:	Use protective gloves in P.V.C., or in plastic material/rubber.
Eye protection:	Use protective goggles.
Protection for skin:	Wear lightweight protective clothing.

9. Physical and Chemical Properties

Colour:	White
Appearance:	Granular Powder
pH Value:	6-7 (0.1% solution)
Melting Point:	>350°C
Solid/Gas Flammability:	As with many organic powders flammable dust clouds may form
Bulk Density:	0.68 g/cm3
Solubility in Water:	Limited by viscosity

9. Physical and Chemical Properties cont..

Decomposition Temperature:	>150°C
Auto-ignition Temperature:	>150°C
Vapor Pressure (20°C)	N/A
Explosive Properties:	N/A
Oxidizing properties:	N/A

10. Stability and Reactivity

Chemical Stability:	Stable under normal temperature and pressure.
Conditions to avoid:	Stable at room temperature. Follow the industrial hygiene norms as for the handling and storage of chemicals. Avoid extremes of temperature and wet and humid conditions.
Substances to avoid:	Avoid contact with strong oxidants. Avoid contact with alkaline materials which will degrade the polymer.
Hazardous decomposition products:	In case of combustion there is development of CO, CO2, NOX, HCl, NH3 and SO2.

11. Toxicological Information

No adverse health effect is expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that arise if the product is mishandled and over exposure occurs are:

Ingestion:	No adverse effects expected, however, large amounts may cause nausea and vomiting.
Eye Contact:	May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eye.
Skin Contacts:	Repeated or prolonged skin contact may lead to irritation.
Inhalation:	Breathing in dust may result in respiratory irritation.
Chronic Effect:	No information available for this product.
Acute Toxicity:	No LD50 data available for the material.

12. Ecological Information

Avoid contaminating waterways.

This material is not classified as dangerous for the environment. The effects on aquatic organisms are due to an external (non–systemic) mode of action, and are significantly reduced within 30 minutes due to binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts. 48 hrs. EC50 (Daphnia magna): > 200 mg/L

13. Disposal Considerations

Refer to Waste Management Authority. Dispose of content/containers in accordance with local/ regional/ national/ international regulation.

14. Transport Information

Road and Rail Transport:	Not classified as Dangerous Goods by criteria of the Australian Dangerous Goods Code (ADG Code) by transport by Road and Rail. NON-DANGEROUS GOODS.
Marine Transport:	Not classified as Dangerous Goods by criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by Sea. NON-DANGEROUS GOODS.
Air Transport:	Not classified as Dangerous Goods by criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. NON-DANGEROUS GOODS.

15. Regulatory Information

Based on available information, not classified as hazardous according to Safe Work Australia; NON- HAZARDOUS SUBSTANCE.

Poison Schedule (SUSMP): Non-allocated.

All the constituents of this material are listed on the Australian Inventory of Chemicals Substances (AICS).

16. Other Information

This safety data sheet has been prepared by Science Developments Pty Ltd. Reason for Issue: Updated information

This SDS summarises to our best knowledge at the date of this issue the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Science Developments Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact Science Developments Pty Ltd as per the contact details on page 1.