

# Safety Data Sheet

## 1. Identification of the Material and Supplier

<b>Product Name:</b>	<b>MaxiFlox® 525P</b>
<b>Supplier:</b>	Science Developments Pty Ltd
<b>ABN:</b>	96 001 815 363
<b>Address:</b>	Unit 1, 8 Turbo Road Kings Park NSW 2148 AUSTRALIA
<b>Contact Details:</b>	+61 (2) 9622 5185 <a href="mailto:projects@scidev.com.au">projects@scidev.com.au</a>
<b>Emergency Telephone:</b>	13 11 26 (Poison Information Hotline)
<b>Date:</b>	10 May 2019
<b>Product Name:</b>	<b>polyacrylamide, anionic</b>

## 2. 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.

<b>Classification of the product:</b>	No need for classification according to GHS criteria for this product.
<b>Label elements:</b> accordance with GHS criteria	The product does not require a hazard warning label in accordance with GHS criteria
<b>Hazards not otherwise classified:</b>	Very slippery when wet  This type of product has a tendency to create dust if roughly handled. The product does not burn readily but as with many organic powders, flammable dust clouds may be formed in air. The product is under certain conditions capable of dust explosion.
<b>Labelling of special preparations (GHS):</b>	This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size.

### 3. Composition / Information on ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

This product does not contain any components classified as hazardous under the referenced regulation.

### 4. First Aid Measures

<b>General Advice:</b>	Remove contaminated clothing
<b>Inhalation:</b>	If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.
<b>Skin contact:</b>	Wash thoroughly with soap and water.
<b>Eye contact:</b>	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
<b>Ingestion:</b>	Rinse mouth and then drink plenty of water. Check breathing and pulse. Place victim in the recovery position, cover and keep warm. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having
<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known. Hazards: No hazard is expected under intended use and appropriate handling.
<b>Note to physician for Treatment:</b>	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## 5. Fire Fighting Measures

<b>Extinguishing measures:</b>	<p>Suitable extinguishing media</p> <ul style="list-style-type: none"> <li>• Dry powder, foam</li> </ul> <p>Unsuitable extinguishing media for safety reasons:</p> <ul style="list-style-type: none"> <li>• Water jet</li> </ul> <p>Additional information:</p> <ul style="list-style-type: none"> <li>• If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.</li> </ul>
<b>Hazards arising from the substance:</b>	<p>Hazards during fire-fighting: Carbon oxides, nitrogen oxides</p> <p>The substances/groups of substances mentioned can be released in case of fire. Very slippery when wet.</p>
<b>Advice:</b>	<p>Protective equipment for fire-fighting: Wear a self-contained breathing apparatus.</p>
<b>Other information:</b>	<p>Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.</p>

## 6. Accident Measures

<b>Precautionary measures:</b>	<p>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Forms slippery surfaces with water.</p>
<b>Protection:</b>	<p>Use personal protective clothing.</p>
<b>Environment Protection:</b>	<p>Do not discharge into drains/surface waters/groundwater.</p>
<b>Containment &amp; Clean up:</b>	<p>Non-sparking tools should be used.</p>

<b>Precautions:</b>	Breathing must be protected when large quantities are decanted without local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Forms slippery surfaces with water.
<b>Protection against fire and explosion:</b>	Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.
<b>Safe storage information:</b>	Further information on storage conditions: Store in unopened original containers in a cool and dry place. Avoid wet, damp or humid conditions, temperature extremes and ignition sources.  Storage stability: Avoid extreme heat.

## 8. Exposure Controls / Personal Protection

No occupational exposure limits known.

<b>System design advice:</b>	It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks
<b>Respiratory protection:</b>	Wear a NIOSH-certified vapour/particulate respirator (or equivalent) organic
<b>Hand protection:</b>	Chemical resistant protective gloves
<b>Eye protection:</b>	Safety glasses with side-shields.
<b>Body protection:</b>	Light protective clothing

**General safety and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wearing of closed work clothing is recommended. Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work.

## 9. Physical and Chemical Properties

**Form:** Powder

**Odour:** Odourless

**Odour threshold:** No data available.

**Colour:** Off-white

**pH value:** 6 – 8 (10 g/l)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Melting point:** The substance determined / product decomposes therefore not

**Boiling point:** N/A

**Sublimation point:** N/A

**Flash point:** N/A

**Flammability:** Not flammable

**Lower explosion limit:** N/A

**Upper explosion limit:** N/A

**Autoignition:** N/A

**Vapour pressure:** The product has not been tested.

**Relative density:** No data available.

<b>Bulk density:</b>	Approx. 750 kg/m <sup>3</sup>
<b>Vapour density:</b>	No applicable information available.
<b>Partitioning coefficient n- octanol /water (log Pow):</b>	Study scientifically not justified.
<b>Self-ignition temperature:</b>	Not self-igniting
<b>Viscosity, dynamic:</b>	N/A, the product is a solid
<b>Solubility in water:</b>	Forms a viscous solution.
<b>Solubility (quantitative):</b>	N/A
<b>Solubility (qualitative):</b>	N/A
<b>Evaporation rate:</b>	The product is a non-volatile solid.
<b>Other Information:</b>	If necessary, information on other physical and chemical parameters is indicated in this section.

## 10. Stability and Reactivity

<b>Reactivity</b>	No hazardous reactions if stored and handled as prescribed/indicated.
<b>Corrosion to metals:</b>	No corrosive effect on metal.
<b>Oxidizing properties:</b>	Not fire-propagating
<b>Chemical stability:</b>	The product is stable if stored and handled as prescribed/indicated.
<b>Possibility of hazardous reactions:</b>	The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.
<b>Conditions to avoid:</b>	Stable under normal conditions. No hazardous reactions known.
<b>Incompatible materials:</b>	Avoid extreme temperatures. Avoid humidity.
<b>Hazardous decomposition products:</b>	Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

## 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:

**Primary routes of exposure:** Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Acuity Toxicity:** Assessment of acute toxicity: No known acute effects.

### Oral

- Type of value: LD50 Species: rat
- Value: > 5,000 mg/kg (OECD Guideline 401)

### Irritation / corrosion

- Assessment of irritating effects: Not irritating to eyes and skin.

### Skin

- Species: rabbit Result: non-irritant
- Method: OECD Guideline 404

### Eye

- Species: rabbit Result: non-irritant

### Sensitization

- Assessment of sensitization: Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

### Aspiration Hazard

- No aspiration hazard expected.

**Chronic Toxicity:**

Repeated dose toxicity

- Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity

- Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Carcinogenicity

- Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.
- None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity

- Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Teratogenicity

- Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

Other Information

- The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition

**Symptoms of exposure:**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.



## 12. Ecological Information

<b>Toxicity</b>	<p>Toxicity to fish</p> <ul style="list-style-type: none"> <li>• LC50 (96 h) &gt; 100 mg/l, <i>Oncorhynchus mykiss</i> (static)</li> <li>• (under static conditions in the presence of 10 mg/L humic acid)</li> </ul> <p>Aquatic invertebrates</p> <ul style="list-style-type: none"> <li>• LC50 (48 h) &gt; 100 mg/l, <i>Daphnia magna</i></li> </ul>
<b>Persistence and degradability</b>	<p>Assessment biodegradation and elimination (H<sub>2</sub>O)</p> <ul style="list-style-type: none"> <li>• Not readily biodegradable (by OECD criteria).</li> </ul>
<b>Bio accumulative potential:</b>	<p>Assessment bioaccumulation potential</p> <ul style="list-style-type: none"> <li>• Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.</li> </ul>
<b>Mobility in soil</b>	<p>Assessment transport between environmental compartments</p> <ul style="list-style-type: none"> <li>• Information on: Anionic polyacrylamide</li> <li>• Adsorption to solid soil phase is expected.</li> </ul>
<b>Additional information</b>	Other ecotoxicological advice

## 13. Disposal Considerations

<b>Substance Disposal:</b>	Must be disposed of or incinerated in accordance with local regulations.
<b>Container disposal:</b>	Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## 14. Transport Information

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

**Registration Status:** Chemical DSL, CA, released / listed

## 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.