Safety Data Sheet

1. Identification of the material and supplier

Product Name:	**OptiFlox® Coagulant Preparation 827**
Supplier:	Science Developments Pty Ltd
ABN:	96 001 815 363
Address:	Suite 105, 48 Atchison Street St Leonards NSW 2065 AUSTRALIA
Contact Details:	+61 (0) 427 501 274 admin@scidev.com.au
Emergency Telephone:	13 11 26 (Poison Information Hotline)
Recommended Use:	Mining water and wastewater treatment

2. Hazards identification

Classification of the Chemical: **Not classified as hazardous** according to the GHS criteria. **Non-Dangerous Goods** according to the ADG Code.

Hazard Statement: H317 May cause an allergic skin reaction.

AUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statement:

Prevention:
P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves / protective clothing / eye protection.

Response:
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.

Storage	No storage statements.
Disposal	P501 Dispose of contents and container in accordance with local, regional national and international regulations.

3. Composition and information on Ingredients

Chemical Nature: Cationic copolymer blend with aluminium chlorohydrate

4. First aid measures

Inhalation:
Minimal vapour present. Remove to fresh air if symptoms occur.

Skin Contact:
In case of contact, wash affected skin with soap and plenty of water. Get medical attention if skin irritation or dermatitis commences or persists.

Eye Contact:
Rinse with plenty of water for 15 minutes. Get medical attention if persists.

Ingestion:
Do NOT induce vomiting. If unconscious, do not give anything by mouth. If conscious, rinse mouth; then drink one or two large glasses of water. Contact a doctor or the Poisons Information Centre (In Australia Phone: 13 11 26).

Indication of immediate medical attention and special treatment needed:
No specific treatment**.** Treat symptomatically.

5. Fire Fighting Measures

Suitable Extinguishing Media:
Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards arising from the chemical:
Non-combustible material.

Special protective equipment and precautions for fire-fighters:
Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Use suitable protective equipment (PPE). Spills are slippery.

Environmental precautions:
Avoid dispersal of spilt material and prevent contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

Methods and materials for containment and cleaning up:
Stop leak if without risk. Move containers from spill area. Prevent entry into sewers water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, silica gel, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

7. Handling and storage

Precautions for safe handling:
Do not ingest. Avoid contact with eyes and skin. Keep in original container or an approved alternative made from a compatible material. Keep tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:
Keep container tightly closed in a dry, cool and well-ventilated area. Protect from heat and avoid extremes of temperature. Store away from foodstuffs.

8. Exposure controls & personal protection

Exposure control measures:
No exposure standard allocated.

Engineering controls:
None required. However, use of adequate ventilation is good industrial practice.

Hygiene measures:
Ensure that eyewash stations are close to the workstation location.

Personal Protection:
Eyes: Tightly fitting safety goggles (chemical googles).
Hands: PVC oil /chemical resistant gloves.
Respiratory: Wear respiratory protection if ventilation is inadequate.
Skin: Chemical resistant apron and lightweight protective clothing.

9. Physical and chemical properties

Physical state: Liquid

Colour: Clear to cloudy white

Odour: Minimal

Melting point: Not applicable

Vapour pressure: Not available

Specific gravity: 1.10 - 1.11 @20° C

Flash point: Not available

Vapour density: Not available

pH: Approx. 3.0

Water solubility: Completely soluble

10. Stability and reactivity

Chemical stability: The product is stable under normal ambient conditions of temperature and pressure.

Possibility of hazardous reactions: No hazardous reactions expected.

Conditions to avoid: Avoid temperature extremes, especially freezing conditions.

Incompatible materials: No incompatible materials expected.

Hazardous decomposition products: No decomposition expected under normal storage conditions.

11. Toxicological information

Potential acute health effects

Ingestion: Not tested.
Eye contact: Not tested.
Skin contact: Not tested.
Inhalation: Not tested.

Potential chronic health effects

Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Reproductive toxicity: No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity:	Not available
Persistence and degradability:	Not available
Bio-accumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	No known significant effects or critical hazards

13. Disposal Methods

The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national and international regulations.

14. Transport information

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods (ADG Code) for transport by Road and Rail: **NON-DANGEROUS GOODS**

15. Regulatory information

Safety, health and environmental regulations:
All substances are listed on the Australian Inventory of Chemical Substances (AICS).

AU Classification:

Not classified as hazardous according to Safe Work Australia.

Control of Scheduled Carcinogenic Substances
No listed substance.

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.