



Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	SYNERFLOC A-1103D / ALKAPAM A-1103D
Product Family	Anionic water-soluble polymer
Supplier	Engenium Chemicals Corp., 4333 - 46th Avenue S.E., Calgary, Alberta , T2B-3N5, 403-279-8545
Emergency Contact Information	306-634-3411

2. HAZARDS IDENTIFICATION

Potential Health Effects

Route of Exposure	Inhalation; skin contact; ingestion; eye contact.
Inhalation	No adverse effects expected. Product may swell in throat causing choking.
Skin Contact	No effects expected. Prolonged contact may cause slight skin irritation.
Eye Contact	No effects expected except mechanical irritation.
Ingestion	No effects expected. Product may swell in throat causing choking.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients.

4. FIRST AID MEASURES

First Aid Procedures

Inhalation	Move victim to fresh air. If breathing is difficult, administer oxygen. Seek medical attention if respiratory irritation or distress continues.
Skin Contact	Immediately wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 15-20 minutes. If irritation or pain persists, see a doctor.
Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If irritation or pain persists, see a doctor.
Ingestion	Do not induce vomiting. Have victim rinse mouth with water. If breathing is difficult, trained personnel should administer emergency oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration (AR). Seek medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Specific Hazards Arising from the Chemical Aqueous solutions or powders that become wet render surfaces extremely slippery.

Protective Equipment and Precautions for Firefighters No special precautions are necessary.
No special protective equipment required.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use the Personal Protective Equipment recommended in Section 8 of this MSDS.
Environmental Precautions	It is good practice to prevent releases into the environment.
Methods for Containment and Clean-up	Do not flush with water clean up by sweeping or vacuum. Contain and soak up spill with absorbent that does not react with spilled product. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Only use where there is adequate ventilation.
Storage	Store in a dry place. Well-ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Not available.

Engineering Controls General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

Personal Protective Equipment (PPE)

Eye/Face Protection Safety glasses with side shields are recommended to prevent eye contact.

Skin Protection Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection NIOSH/MSHA Approved respirator recommended when TLV's are exceeded.

General Hygiene Considerations Remove contaminated clothing promptly. Keep contaminated clothing in closed, labelled containers until they can be safely discarded. Do not smoke, drink or eat in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	White powder.
Odour	Odourless
Odour Threshold	Not available
Boiling Point	Not available
Freezing Point	Not available
Relative Density (water = 1)	Not available
Solubility in Water	Dispersible
pH	4 - 6 (5% solution)
Partition Coefficient, n-Octanol/Water	Not available
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Evaporation Rate	Not available
Flash Point	Not available
Lower Flammable/Explosive Limit	Not available
Upper Flammable/Explosive Limit	Not available
Auto-ignition Temperature	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	None known.
Incompatible Materials	Oxidizing agents (e.g. peroxides).
Hazardous Decomposition Products	Oxides of Carbon oxides of Nitrogen.
Possibility of Hazardous Reactions	None known.

11. TOXICOLOGICAL INFORMATION

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Irritation/Corrosion

No effects expected. Prolonged contact may cause slight irritation.

Eye Irritation/Corrosion

No effects expected. May cause mechanical irritation.

Effects of Short-Term (Acute) Exposure

Inhalation

May cause sneezing nose and throat irritation.

Skin Absorption

No effects expected.

Ingestion

No effects expected. Product may swell in throat causing choking.

No information was located for: Effects of Long-Term (Chronic) Exposure, Respiratory and/or Skin Sensitization, Carcinogenicity, Teratogenicity / Embryotoxicity, Reproductive Toxicity, Mutagenicity, Toxicologically Synergistic Materials

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxicity to fish: LC50/Fish/96 hr > 100 mg/L (OECD 203) (Based on the toxicity of the components using the Conventional Method) Toxicity to Daphnia: EC50/Daphnia/48 hr > 100 mg/L (OECD 202) (Based on the toxicity of the components using the Conventional Method) Toxicity to algae: IC50/algae/72 hr > 100 mg/L (OECD 201) (Based on the toxicity of the components using the Conventional Method).

Persistence and Degradability No information was located.

Bioaccumulation / Accumulation This product and its byproducts are not known to bioaccumulate.

Mobility Studies are not available.

13. DISPOSAL CONSIDERATIONS

Dispose of or recycle empty containers through an approved waste management facility.

14. TRANSPORT INFORMATION

Shipping Information

Not regulated under Canadian TDG Regulations.

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Other Transport Information

Special Shipping Information Not applicable

15. REGULATORY INFORMATION

Canada

WHMIS Classification

Not a WHMIS controlled product.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

MSDS Prepared By Product Safety Committee

Phone No. 403-279-8545

Date of Preparation February 20, 2017

Disclaimer To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.