Material Safety Data Sheet

Product Names: M-FLOW 80, M-FLOW 82, M-FLOW 84, M-FLOW 86, M-FLOW 88
Product Uses: See technical data sheet **Revision Date:** April 20, 2009

Section 1b – Company Identification

Proven Performance Chemicals
370 Commerce Boulevard, Bogart, Georgia 30622
United States

Emergency Phone Number: 678-729-9333
Technical Information: 706-355-3217
Fax Number: 706-355-9199

Section 2 – Composition / Information on Ingredients

Chemical Name: Polyether polycarboxylate, sodium salt in aqueous solution **Hazardous Components:** NONE

Section 3 – Hazards Identification

Adverse Health Effects: Slight irritant for eye. Eye irritation is reversible. **Physical and Chemical Hazards:**
Fire or explosion NONE **Hazard Classification:** This material is NOT HAZARDOUS by OSHA Hazard Communication definition.

Section 4 – First-Aid Measures

Inhalation: If affected, remove to fresh air **Skin Contact:** Wash affected area thoroughly with plenty of water **Eye Contact:** Flush immediately with plenty of water. If irritation persists, see eye doctor. **Ingestion:** No known ingestion affects. Consult a physician

Section 5 – Fire-Fighting Measures

Extinguishing Media:

Appropriate Water spray Foam Powder Carbon dioxide

Unsuitable NONE **Specific Hazards:** Dried polymer can burn generating vapors including CO, CO_2, and hydrocarbons **Specific Intervention Methods:** Appropriate protective equipment must be worn in case of fire

Section 6 – Accidental Release Measures

Personal Protective Equipment:	Rubber gloves Safety eyewear
Precautions to Protect Environment:	Prevent product from spreading in the environment Do not discharge into sewer
Cleaning Methods:	
Disposal	Dispose in accordance with federal, state, and local regulations. Various options may be available.
Recovery	Vacuum bulk liquid or absorb it with inert sorbent.
Elimination	Burn contaminated material in an approved plant.

Section 7 – Handling and Storage

Handling:	
Technical measures	Does not require specific technical measures.
Safety procedures	See Section 8
Storage:	
Conditions	For industrial use, IBC's containing M-Flow should not be stored outside. Store away from heat. Keep floor around container free of spilled product to prevent highly viscous material from sticking to shoes. Keep container tightly closed when not in use.
Incompatibilities	Store away from strong oxidizers / strong acids.
Containers	
-recommended	Opaque containers made of coated steel, stainless steel, or plastic materials (e.g. polyethylene).
-not recommended	Translucent or transparent containers for outdoor storage. Carbon steel. Aluminum and its alloys.

Section 8 – Exposure Controls / Personal Protection

Engineering Controls: Does not necessitate specific or particular measures, provided general health and safety practices are observed. Use with general mechanical room ventilation for normal handling and storage operations.

Section 9 – Physical and Chemical Properties

Color: Clear to turbid, colorless to slight orange

Aspect: polymer with water removed. Physical state Viscous liquid

Odor: Mild odor

pH: around 4 to 8

Flash Point: >204.4°C (399.92°F), closed cup, based on pure

Boiling Point: 100°C (212°F) estimated based on water content.

Crystallization Point: No data available

Specific Gravity: around 1.05 to 1.10 at 25°C (77°F)

In solvents Very slight

Vapor Pressure: 18 mm Hg @ 20°C estimated based on water
Solubility In water Miscible

Volatile Part by Weight: Contains 59 to 61 wt% of water

n-Octanol / Water Partition Coefficient: Not determined

Section 10 – Stability and Reactivity

Stability: Stable if appropriately used

Dangerous Reactions:

Materials to avoid: Strong acids. Strong oxidizing agents.

Hazardous decomposition products: When exposed to high temperature and an ignition source, a flammable vapor could evolve and burn. Decomposition will result in the production of carbon monoxide and carbon dioxide.

Section 11 – Toxicological Information

Acute Toxicity: LD50 (oral, rat) >2000 mg/kg b.w. LD50 (skin, rat) >2000 mg/kg b.w.

Local Effects: Slight irritant by occular application on rabbit. Effects of the eye irritation are reversible. Not irritant by cutaneous application on rabbit.

Section 12 – Ecological Information

Environmental Fate: Stability in soil: specific data not available. In general, high molecular weight polymers tend to adsorb to solids in wastewater treatment and surface waters.

Degradability: Specific data not available. Likely not readily biodegradable.

Ecotoxicity:

Impact on aquatic environment: No data available.

Section 13 – Disposal Considerations

Product Residues:

Prohibition: Do not discharge to sewer

Destruction / Elimination: Dispose in accordance with federal, state and local regulations. Various options may be available.

Use Packaging:

Decontamination / washing: Empty packaging thoroughly and rinse with water before disposal.

Destruction / Elimination: Dispose in accordance with federal, state and local regulations. Various options may be available.

International:

WHMIS (Canada): Not a “controlled product” under the Canadian Workplace Hazardous Materials Information System (WHMIS)

Section 14 – Transport Information

Ground Transportation: DOT	Not regulated
Sea Transportation: IMDG	Not regulated
Air Transportation: IATA	Not regulated

Section 15 – Regulatory Information

Federal:

TSCA	All components are either listed or otherwise comply with requirements.
SARA title 111 section 313	This product does not contain any substance subject to reporting requirements at or above deminimis quantities.

Section 16 – Other Information

HMIS Rating:	Health: 0 Flammability: 1 Reactivity: 0 Protective equipment: A