



MATERIAL SAFETY DATA SHEET

Trade Name: FLOWLINE PAC (Regular, Low)

Revision Date: 01-Jan-08

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: FLOWLINE PAC (Regular, Low)

Chemical Family: Polyanionic Cellulose

Emergency Telephone (24 hr.): 1-800-324-0777

Supplied by: **HiTech Fluid Systems Ltd.**
1800, 505 - 3rd Street S.W.
Calgary, AB T2P 3E6
Tel: 403.547.2906
Fax: 403.547.3129
www.hitechfluid.com

Revision Number: 3

2. HAZARDOUS INGREDIENTS

Hazard Date: May be mildly irritating to skin, eyes and respiratory tract.

Health: 1

Flammability: 1

Reactivity: 0 Ratings based on NPFA

Inhalation: May be irritating to the respiratory tract if inhaled. Nuisance dust 15 mg/m³ total dust.

Skin Contact: May be irritating to the skin with prolonged contact.

Eye Contact: May cause irritation to the eyes.

Ingestion: Not anticipated route exposure.

Chronic Health Effects: None known. Not listed as a carcinogen on IARC, NYP or OSHA lists.

Medical Conditions Aggravated by Exposure: None known

3. FIRST AID MEASURES

Inhalation: Remove person to fresh air. Get medical attention for any breathing difficulty.

Skin Contact: Wash exposed area thoroughly with soap and water. Remove contaminated clothing and laundry before reuse. Get medical advice if irritation develops.

Eye Contact: Wash eyes thoroughly with large amounts of running water for at least 15 minutes. Get medical advice if discomfort continues.

Ingestion: Incidental ingestion should not cause gastrointestinal distress.

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4. FIRE FIGHTING MEASURES

Flash Point:	431 degrees F
Flammable Limits:	Not determined
Fire Extinguishing Media:	Water, Carbon dioxide, dry chemical, foam.
Unusual Fire and Explosion Hazard:	Particulate may accumulate static electricity. Dust explosion may occur when finely divided particles are mixed with air in the presence of an ignition source.

5. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:	Contain, collect and place in suitable container for reuse or disposal. Avoid creating dust. Wet product may create a slipping hazard.
Personal Precautions:	Avoid breathing dust. Use personal protective equipment identified in Section 8.
Environmental Precautions:	Waste must be disposed of in accordance with all local, state and federal law.
Methods for Cleaning Up:	Do NOT FLUSH WITH WATER. Clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

6. HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. Avoid generating or breathing dust. Product is slippery if wet. Use only with adequate ventilation. Wash thoroughly after handling.
Storage:	Store in a cool, dry, ventilated area. Use good housekeeping in storage and work areas to prevent accumulation of dust. Keep away from oxidizing agents.

7. PERSONAL PROTECTION

Respiratory Protection:	None should be needed if properly handled.
Ventilation:	Not required
Protective Gloves:	Butyl or neoprene rubber.
Eye Protection:	Safety goggles recommended.
Other Protective Equipment:	Emergency eye wash station should be available
Other Control Measures:	Should not be necessary

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Limits:	OSHA Permissible Exposure Limite (PEL) 15 mg/m3 total dust, 5 mg/m3 respirable fraction for nuisance dust.
Ventilation Requirements:	A system of local and/or general exhaust is recommended if handled in a confined area.
Respiratory Protection:	Use NIOSH approved nuisance dust respirator.

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Eye Protection: Wear safety glasses with side shields. Maintain eye wash station in work area.

Skin and Body Protection: Not normally necessary. Wear long sleeved clothing and work gloves to prevent repeated or prolonged skin contact.

Other Protection Equipment / Clothing: As appropriate for work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Colour: Off White to Light Yellow

Odour: None

pH: 6.5-8.0 at (1% solution)

Specific Gravity: 1.5-1.6

Boiling Range / Point: Not applicable

Flash Point: 430 degrees F

Explosion Limits (%): Not determined

Density: 40-55 lb/cu. Ft.

Water Solubility: Soluble

Vapor Density (Air=1) Not applicable

Evaporation Rate (butyl acetate = 1) Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

Materials to Avoid: Excessive heat, sparks, flame and strong oxidizers.

Hazardous Polymerization: Will not occur

Hazardous Decomposition: Oxides of carbon

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral: LD 50: 1260 mg/kg (rat)

Cancer Status: Not listed as carcinogen by IARC, or OSHA.

Irritation

Skin:

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12. ECOLOGICAL INFORMATION

Product Ecotoxicity Data: No ecotoxicity data is available. This product is not expected to present an environmental hazard. Readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Readily biodegradable. Dispose of material in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Proper Shipping Name (49 CFR 172.101-102): None
Hazard Classification (49 CFR 172.101-102): None
Labels Required (49 CFR 172.101-102): None
Placards Required (49 CFR 172.504): None

15. REGULATORY INFORMATION

TSCA Listed: Yes
SARA Title 111 Section 302: No
SARA Title 111 Section 311/312: No
SARA Title 111 Section 313: No
Canada DSL: Yes

16. OTHER INFORMATION

Abbreviations:

N/A: Denotes no applicable information found or available.
CAS#: Chemical Abstracts Service Number.
ACGIH: American Conference of Governmental Industrial Hygienists.
NIOSH: National Institute for Occupational Safety & Health.
OSHA: Occupational Safety and Health Administration.
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit.
NTP: National Toxicology Program.
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%

Disclaimer:

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We can not make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.