



MATERIAL SAFETY DATA SHEET

P.O. BOX 1603
EUNICE, LA 70535
866-457-0064 or 337-457-0064

DEL PHPA

SECTION I - IDENTIFICATION

Manufacturer's Name: Delta Drilling Products & Services, LLC
Physical Address: 154 Eastpark Drive
Eunice, LA 70535
Emergency Number: 866-457-0064 or 337-457-0064
Product: Flowline Liquid PHPA
Chemical Family: Anionic acrylamide copolymer emulsion in hydrocarbon oil.

SECTION II - HAZARDOUS IDENTIFICATION

Irritating to eyes and skin.
Spills produce extremely slippery surfaces.

SECTION III - FIRST AID MEASURES

Inhalation: Move to fresh air. Consult a physician in case of irritation or other symptoms.
Skin Contact: Wash off immediately with soap and plenty of water. In case of skin irritation, consult a physician.
Eye Contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.
Ingestion: This product is not considered toxic based on studies on laboratory animals.

SECTION IV - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water, water spray, foam, dry powder, carbon dioxide (CO²)
Special Fire-Fighting Precautions: Spills produce extremely slippery surfaces.
Special Protective Equipment for Firefighters: No special protective equipment required.

SECTION V - ACCIDENTAL RELEASE MEASURES

Personal Precautions: No special precautions required.
Environmental Precautions: Avoid contaminating water.
Methods for Cleaning Up: DO NOT FLUSH WITH WATER. Dam up. Soak up with inert absorbent material. If liquid has been spilled in large quantities, clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. AFTER CLEANING, flush away traces with water.

SECTION VI - HANDLING AND STORAGE

Handling: For good industrial hygiene, avoid contact with skin and eyes, avoid forming dust/mist. Wash hands before breaks and at the end of workday. Do not smoke while using product.
Storage: Keep in a dry, cool place (0 - 30°C). When preparing the working solution, ensure there is adequate ventilation. Freezing will affect the physical condition and may damage the material.

SECTION VII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
Personal Protection Equipment:	
Respiratory Protection:	In case of insufficient ventilation and/or misty conditions, wear NIOSH approved organic filter respirator.
Hand Protection:	Gloves are recommended.
Eye Protection:	Safety glasses with side shields. Do not wear contact lenses.
Skin and Body Protection:	Chemical resistant apron or protective suite if splashing or repeated contact with solution is likely.
Hygiene Measures:	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

SECTION VIII - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous liquid
Color:	Milky
Odor:	Aliphatic
pH:	6 – 8 @ 5 g/l (for product series. See Technical Bulletin for specific value)
Melting Point (°C):	Not applicable
Flash Point (°C):	>212° F (100° C)
Auto Ignition Point (°C):	>392°F (200° C)
Vapor Pressure (mm Hg):	0.002@ 68° F (20° C)
Bulk Density:	See Technical Bulletin
Water Solubility:	See Technical Bulletin
Viscosity (mPa s):	See Technical Bulletin

SECTION IX - STABILITY AND REACTIVITY

Stability:	Product is stable, no hazardous polymerization will occur.
Materials to Avoid:	Oxidizing agents may cause exothermic reactions.
Hazardous Decomposition Products:	Thermal decomposition may produce: carbon oxides and nitrogen oxides (NO _x).

SECTION X - TOXICOLOGICAL INFORMATION

Acute toxicity:	
- Oral:	LD50/oral/rat > 500 mg/kg
- Dermal:	The product is not toxic in contact with the skin.
- Inhalation:	the product is not expected to be toxic by inhalation.
Irritation:	
- Skin:	Irritating to skin.
- Eyes:	Irritating to eyes.
Sensitization:	The product is not expected to be sensitizing.
Chronic Toxicity:	Prolonged skin contact may defat the skin and produce dermatitis.

SECTION XI - ECOLOGICAL INFORMATION

Ecotoxicity	
- Fish:	LC50/Fathead minnows/96 hours > 1000 mg/l
- Algae:	EC50 / 72h / <i>Phaeodactylum tricournum</i> > 1000 mg/l
- Daphnia:	LC50 / 48h / <i>Chaetogrammus marinus</i> ≥ 15 mg/l

Bioaccumulation: The product is not expected to bioaccumulate.
Persistence / Degradability: Not readily biodegradable. (40% after 28 days)

SECTION XII - DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with federal, state and local regulations.
Contaminated Packaging: Rinse empty containers with water and use the rinse water to prepare the working solution. Can be land filled or incinerated, when in compliance with local regulations.

SECTION XIII - TRANSPORT INFORMATION

Not regulated by the Department of Transportation.

SECTION XIV - REGULATORY INFORMATION

All components of this product are pm TSCA and DSL inventories.

RCRA status:	Not a hazardous waste.	
Hazardous Waste Number:	Not applicable.	
Reportable Quantity (40 CFR 302):	Not applicable.	
Threshold planning Quantity (40 CFR 355):	Not applicable.	
HMIS & NFPA Ratings:	HMIS	NFPA
Health:	1	1
Flammability:	1	1
Reactivity:	0	0

California Proposition 65 Information: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains chemical(s) known to the State of California to cause cancer: residual acrylamide.

The information herein is furnished without warranty of any kind. Employers should use this information only as supplemental to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. DELTA DRILLING PRODUCTS & SERVICES, LLC assumes no responsibility and denies all liability for any loss, damage or expense connected with the customer's methods of handling, storage, use and disposal of this product.

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