



# Material Safety Data Sheet

*Dry  
Polymer  
Dewatering*

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

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**Product name :** FLOPAM FO 4690 N

**Company :** POLYDYNE INC.  
Riceboro, GA 31323  
PO Box 279  
United States

**Telephone :**  
**Telefax :** 1-800-848-7659  
**E-mail :** (912)-884-8770

**Emergency telephone number :** 1-800-424-9300

**Product Use :** Processing aid for industrial applications.

## 2. HAZARDS IDENTIFICATION

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### Appearance and Odor

**Form :** Granular solid  
**Color :** White  
**Odor :** None

### Emergency Overview :

Aqueous solutions or powders that become wet render surfaces extremely slippery.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Identification :** Cationic water-soluble polymer.

### Regulated Components

None.

## 4. FIRST AID MEASURES

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**Inhalation :** No hazards which require special first aid measures.

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**Skin contact :** No hazards which require special first aid measures. Wash with water and soap as a precaution. Call a physician if irritation persists.

**Eye contact :** Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

**Ingestion :** No hazards which require special first aid measures. The product is not considered toxic based on studies on laboratory animals.

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#### 5. FIRE-FIGHTING MEASURES

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**Suitable extinguishing media :** Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder.

**Precautions :** Aqueous solutions or powders that become wet render surfaces extremely slippery.

**Special protective equipment for firefighters :** No special protective equipment required.

**Flash point :** Not applicable

**Autoignition temperature :** Not applicable

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#### 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions :** No special precautions required.

**Environmental precautions :** As with all chemical products, do not flush into surface water.

**Methods for cleaning up :** Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

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#### 7. HANDLING AND STORAGE

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##### Handling

**Safe handling advice :** Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday.

##### Storage

Keep in a dry, cool place (0 - 35 °C).

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Engineering measures

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Personal protective equipment

**Respiratory protection** : Dust safety masks are recommended where concentration of total dust is more than 10 mg/m<sup>3</sup>.

**Hand protection** : Rubber gloves.

**Eye protection** : Safety glasses with side-shields. Do not wear contact lenses where this product is used.

**Skin and body protection** : Chemical resistant apron or protective suit if spashing or repeated contact with solution is likely.

Hygiene measures

Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

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**Form** : Granular solid

**Color** : White

**Odor** : None

**pH** : 2.5 - 4.5 @ 5 g/l

**Melting point/range** : Not applicable

**Flash point** : Not applicable

**Autoignition temperature** : Not applicable

**Approx. bulk density** : 0.85

**Water solubility** : See Technical Bulletin

**LogPow** : 0

10. STABILITY AND REACTIVITY

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**Stability** : Stable. Hazardous polymerisation does not occur.

**Materials to avoid** : Oxidizing agents may cause exothermic reactions.

**Hazardous decomposition products** : Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity

**Skin :** The results of testing on rabbits showed this material to be non-toxic even at high dose levels.

**Oral :** LD50/oral/rat = 5000 mg/kg.

**Inhalation :** The product is not expected to be toxic by inhalation.

### Irritation

**Skin :** The results of testing on rabbits showed this material to be non-irritating to the skin.

**Eyes :** Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.

**Sensitization :** The results of testing on guinea pigs showed this material to be non-sensitizing.

**Chronic toxicity :** A one-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects.

## 12. ECOLOGICAL INFORMATION

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### Aquatic toxicity

**Toxicity to fish :** LC50/96 hours = 5 - 10 mg/L.

**Toxicity to daphnia :** EC50/48 hours = 20 - 50 mg/L.

**Toxicity to algae :** Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

### Environmental fate

**Hydrolysis :** At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

**LogPow :** 0

**Bioaccumulation :** Does not bioaccumulate.

### Other ecological information :

The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

### 13. DISPOSAL CONSIDERATIONS

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**Disposal :** In accordance with local, state and federal regulations.

**Container :** Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local, state and federal regulations.

### 14. TRANSPORT INFORMATION

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#### DOT

**Remarks :** Not classified as dangerous in the meaning of DOT regulations.

#### IMDG/IMO

**Remarks :** Not classified as dangerous in the meaning of IMO/IMDG regulations.

#### ICAO/IATA

**Remarks :** Not classified as dangerous in the meaning of ICAO/IATA regulations.

### 15. REGULATORY INFORMATION

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#### US SARA Reporting Requirements

##### SARA Title III Sections

Sara (311, 312) hazard class : Not concerned

##### State Regulations

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

##### International Inventories

**European Union (EINECS/ELINCS) :** All components of this product are either listed on the inventory or are exempt from listing.

**USA (TSCA) :** All components of this product are either listed on the inventory or are exempt from listing.

**Canada (DSL) :** All components of this product are either listed on the inventory or are exempt from listing.

**Australia (AICS) :** All components of this product are either listed on the inventory or are exempt from listing.

**China (IECSC) :** All components of this product are either listed on the inventory or are exempt from listing.

**Japan (ENCS) :** All components of this product are either listed on the inventory or are exempt from listing.

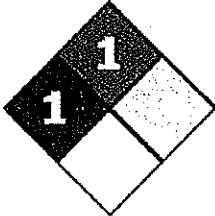
**Korea (ECL) :** All components of this product are either listed on the inventory or are exempt from listing.

**Philippines (PICCS) :** All components of this product are either listed on the inventory or are exempt from listing.

16. OTHER INFORMATION

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NFPA and HMIS Ratings :



NFPA :

Health :	1
Flammability :	1
Instability :	0

HMIS :

Health :	1
Flammability :	1
Physical Hazard :	0

Further information : This MSDS was prepared in accordance with the following :  
ANSI Z400.1-2004; Material Safety Data Sheets - Preparation

Contact : Regulatory Affairs Manager (912-880-8014)

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The data in this Material Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained