



# Material Safety Data Sheet

Issue Date: 23-FEB-2010  
Supercedes:

POLYFLOC AE1115P

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## 1 Identification

**Identification of substance or preparation**  
POLYFLOC AE1115P

**Product Application Area**  
Flocculant.

**Company/Undertaking Identification**  
GE Betz, Inc.  
4636 Somerton Road  
Trevose, PA 19053  
T 215 355-3300, F 215 953 5524

**Emergency Telephone**  
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300    Prepared on: 23-FEB-2010

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**WARNING**

May cause moderate irritation to the skin. Severe irritant to the eyes. May cause irritation to the upper respiratory tract. Exposure may cause dizziness, headache, CNS depression and chemical pneumonitis.

DOT hazard is not applicable  
Odor: Slight Hydrocarbon; Appearance: White To Off-White, Emulsion

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: dry chemical/CO2/foam or water--slippery condition; use sand/grit.

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**

Primary route of exposure; May cause moderate irritation to the skin.

**ACUTE EYE EFFECTS:**

Severe irritant to the eyes.

**ACUTE RESPIRATORY EFFECTS:**

Primary route of exposure; May cause irritation to the upper respiratory tract. Exposure may cause dizziness, headache, CNS depression and chemical pneumonitis.

**INGESTION EFFECTS:**

May cause severe gastrointestinal irritation with possible nausea, vomiting, diarrhea, salivation, blurred vision, weakness, paralysis and injury to kidneys, heart and respiratory system. Aspiration may cause lung injury or death.

**TARGET ORGANS:**

Prolonged or repeated exposures may cause CNS depression and/or defatting-type dermatitis.

**MEDICAL CONDITIONS AGGRAVATED:**

Not known.

**SYMPTOMS OF EXPOSURE:**

Excessive skin contact may cause defatting or drying of skin.  
Excessive inhalation of vapors may cause dizziness, headache and nausea.

### 3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation. This product is subject to the Pennsylvania and New Jersey Worker and Community Right to Know Law.

**HAZARDOUS INGREDIENTS:**

Cas#	Chemical Name	Range (w/w%)
79-06-1	ACRYLAMIDE Toxic (by ingestion); irritant; probable human carcinogen (IARC=2A; NTP=anticipated); neurotoxin	0.1-1.0
64742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE Combustible liquid; irritant; CNS depressant; IARC=3 (carcinogen status not classifiable)	15-40

**NON-HAZARDOUS INGREDIENTS:**

CAS#	CHEMICAL NAME
7732-18-5	WATER
25085-02-3	ACRYLAMIDE/SODIUM ACRYLATE COPOLYMER

### 4 First-aid measures

**SKIN CONTACT:**

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

**EYE CONTACT:**

URGENT! Immediately flush eyes with plenty of low-pressure water for at least 20 minutes while removing contact lenses. Hold eyelids

apart. Get immediate medical attention.

**INHALATION:**

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

**INGESTION:**

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

**NOTES TO PHYSICIANS:**

This product contains a hydrocarbon solvent. Aspiration into the lungs will result in chemical pneumonia and may be fatal.

## 5 Fire-fighting measures

**FIRE FIGHTING INSTRUCTIONS:**

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

**EXTINGUISHING MEDIA:**

dry chemical/CO2/foam or water--slippery condition; use sand/grit.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

oxides of carbon and nitrogen

**FLASH POINT:**

> 200F > 93C SETA(CC)

## 6 Accidental release measures

**PROTECTION AND SPILL CONTAINMENT:**

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

**DISPOSAL INSTRUCTIONS:**

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

## 7 Handling and storage

**HANDLING:**

Normal chemical handling.

**STORAGE:**

Shelf life = 270 days. Keep containers closed when not in use. Reasonable and safe chemical storage. Protect from freezing.

## 8 Exposure controls / personal protection

**EXPOSURE LIMITS**

**CHEMICAL NAME**

ACRYLAMIDE

PEL (OSHA): 0.3 MG/M3 (SKIN)

TLV (ACGIH): 0.03 MG/M3 (SKIN)

ISOPARAFFINIC PETROLEUM DISTILLATE  
PEL (OSHA): NOT DETERMINED  
TLV (ACGIH): 200 MG/M3-A3

**ENGINEERING CONTROLS:**

Adequate ventilation to maintain air contaminants below exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT:**

Use protective equipment in accordance with 29CFR 1910 Subpart I

**RESPIRATORY PROTECTION:**

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.  
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.  
If air-purifying respirator use is appropriate, use a respirator with organic vapor cartridges.

**SKIN PROTECTION:**

viton gloves-- Wash off after each use. Replace as necessary.

**EYE PROTECTION:**

splash proof chemical goggles

## 9 Physical and chemical properties

Spec. Grav. (70F,21C)	1.019	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< 23	Vapor Density (air=1)	< 1.00
Freeze Point (C)	< -5		
Viscosity(cps 70F,21C)	640	% Solubility (water)	ND
Odor		Slight Hydrocarbon	
Appearance		White To Off-White	
Physical State		Emulsion	
Flash Point	SETA(CC)	> 200F > 93C	
pH 1% Sol. (approx.)		7.0	
Evaporation Rate (Ether=1)		< 1.00	
Percent VOC:		22.4	

NA = not applicable      ND = not determined

## 10 Stability and reactivity

**CHEMICAL STABILITY:**

Stable under normal storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:**

Contact with oxidizers may cause fire.

**INCOMPATIBILITIES:**

May react with strong oxidizers.

**DECOMPOSITION PRODUCTS:**

oxides of carbon and nitrogen

## 11 Toxicological information

Oral LD50 RAT: 10,080 mg/kg  
Dermal LD50 RABBIT: 10,100 mg/kg  
Inhalation LC50 RAT: 15,000 ppm/4hr  
NOTE - Inhalation rat LC50: >20 mg/L Alternate source  
Skin Irritation Score RABBIT: 2.2

## 12 Ecological information

### AQUATIC TOXICOLOGY

Bluegill Sunfish 96 Hour Static Acute Bioassay  
LC50= 89.5; No Effect Level= 18 mg/L  
Daphnia magna 48 Hour Static Renewal Bioassay  
LC50= 3.9; 5% Mortality= 1.6 mg/L  
Fathead Minnow 96 Hour Static Renewal Bioassay  
LC50= 25.8; 25% Mortality= 15.6 mg/L  
Rainbow Trout 96 Hour Static Acute Bioassay  
LC50= 75.2; No Effect Level= 10 mg/L

### BIODEGRADATION

COD (mg/g): 1270  
TOC (mg/g): 510

## 13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :  
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

## 14 Transport information

Transportation Hazard: Not Applicable  
DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable  
Note: Some containers may be DOT exempt, please check BOL for exact container classification  
IATA: Not Regulated

IMDG: Not Regulated

## 15 Regulatory information

### TSCA:

All components of this product are included on or are in compliance with the U.S. TSCA regulations.

### CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

Treat as oil spill

### FOOD AND DRUG ADMINISTRATION:

21 CFR 176.110 (acrylamide - acrylic acid resins)  
All ingredients comprising this product are authorized by FDA  
for the manufacture of paper and paperboard that may contact  
aqueous and fatty foods as per 21 CFR 176.170(a) (4).

**NSF Registered and/or meets USDA (according to 1998 Guidelines):**

Registration number: Not Registered  
G1

**SARA SECTION 312 HAZARD CLASS:**

Immediate (acute); Delayed (Chronic)

**SARA SECTION 302 CHEMICALS:**

No regulated constituent present at OSHA thresholds

**SARA SECTION 313 CHEMICALS:**

No regulated constituent present at OSHA thresholds

**CALIFORNIA REGULATORY INFORMATION**

**CALIFORNIA SAFE DRINKING WATER AND TOXIC**

**ENFORCEMENT ACT (PROPOSITION 65):**

This product contains one or more ingredients known to the state of  
California to cause cancer.

**MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 16 Other information

HMIS vII		CODE TRANSLATION
Health	2	Moderate Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment  
recommendations.

**CHANGE LOG**

EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
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MSDS status: 23-FEB-2010		** NEW **