



# Material Safety Data Sheet

Issue Date: 01-AUG-2012  
Supersedes: 18-FEB-2010

POLYFLOC AE1147

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## 1 Identification

**Identification of substance or preparation**  
POLYFLOC AE1147

**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: 01-AUG-2012

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**WARNING**

May cause moderate irritation to the skin. May cause dermatitis.  
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, 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. May cause dermatitis.

**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 gastrointestinal irritation with possible nausea, vomiting, diarrhea, mental confusion, dizziness and lethargy. Small amounts aspirated during ingestion or vomiting may cause lung injury, possibly leading to 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 dermal exposure causes defatting and drying of skin. Excessive inhalation of vapors causes 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; moderate skin irritant; mild eye irritant; may be fatal if swallowed and enters airways; IARC=3 (carcinogen status not classifiable)	15-40

**NON-HAZARDOUS INGREDIENTS:**

CAS#	CHEMICAL NAME
7732-18-5	WATER
NOT ASSIGNED	UNKNOWN
9003-05-8	POLYACRYLAMIDE

### 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:**

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. 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:**

Keep containers closed when not in use. Freezing at 32F (0C) will damage the material. Store between 50-80F (10-27C). Store away from oxidizers. Shelf life 240 days.

## 8 Exposure controls / personal protection

**EXPOSURE LIMITS**

**CHEMICAL NAME**

ACRYLAMIDE

PEL (OSHA): 0.3 MG/M3 (SKIN)  
TLV (ACGIH): TWA (SKIN) = 0.03 MG/M3; A3  
MISC: NIOSH REL = 0.03 MG/M3; NIOSH IDLH = 60 MG/M3

#### ISOPARAFFINIC PETROLEUM DISTILLATE

PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.  
TLV (ACGIH): TWA (Skin): 200 MG/M3; A3 (for Kerosene)

#### 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)	1.058	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< 23	Vapor Density (air=1)	> 1.00
Freeze Point (C)	< -5		
Viscosity(cps 70F,21C)	1900	% Solubility (water)	< 1.0
Odor		Slight Hydrocarbon	
Appearance		White	
Physical State		Emulsion	
Flash Point	SETA(CC)	> 200F > 93C	
pH 0.5% Sol. (approx.)		4.5	
Evaporation Rate (Ether=1)		< 1.00	
Percent VOC:		30.0	

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: >5,000 mg/kg  
Dermal LD50 RABBIT: >2,000 mg/kg  
NOTE - Estimated value

## 12 Ecological information

### **AQUATIC TOXICOLOGY**

Daphnia magna 48 Hour Acute Toxicity  
EC50 Greater Than= 100 mg/L  
Fathead Minnow 96 Hour Static Acute Bioassay  
LC50= 114; No Effect Level= 89 mg/L  
Scenedesmus (algae) 72 Hour Acute Toxicity  
IC50 Greater Than = 100 mg/L

### **BIODEGRADATION**

BOD-28 (mg/g): 332  
BOD-5 (mg/g): 0  
COD (mg/g): 1250  
TOC (mg/g): 480

## 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

**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 and reproductive toxicity.

**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:	18-FEB-2010		** NEW **
	01-AUG-2012	12,14	18-FEB-2010