



# Material Safety Data Sheet

Issue Date: 03-NOV-2008  
Supersedes: 29-MAR-2006

POLYFLOC AE111

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## 1 Identification

**Identification of substance or preparation**  
POLYFLOC AE111

**Product Application Area**  
Acrylamide copolymer.

**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: 03-NOV-2008

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**CAUTION**

May cause slight irritation to the skin. May cause dermatitis. May cause moderate irritation to the eyes. Vapors, gases, mists and/or aerosols may cause irritation to upper respiratory tract.

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, carbon dioxide, foam or water

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**

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

**ACUTE EYE EFFECTS:**

May cause moderate irritation to the eyes.

**ACUTE RESPIRATORY EFFECTS:**

Vapors, gases, mists and/or aerosols may cause irritation to upper

respiratory tract.

**INGESTION EFFECTS:**

No adverse effects expected. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, diarrhea and weakness may occur. 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:**

May cause redness or itching of skin.

### 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.

**HAZARDOUS INGREDIENTS:**

Cas#	Chemical Name	Range (w/w%)
64742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE Combustible liquid; irritant; CNS depressant; IARC=3 (carcinogen status not classifiable)	15-40
9016-45-9	NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL Irritant (eyes and skin)	1-5

### 4 First-aid measures

**SKIN CONTACT:**

Wash thoroughly with soap and water. Remove contaminated clothing. 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 3-4 glasses 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, carbon dioxide, foam or water

### **HAZARDOUS DECOMPOSITION PRODUCTS:**

elemental oxides

### **FLASH POINT:**

> 200F > 93C OPEN CUP

## 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. Store in cool ventilated location. Store away from oxidizers. Shelf life 240 days.

## 8 Exposure controls / personal protection

### **EXPOSURE LIMITS**

#### **CHEMICAL NAME**

ISOPARAFFINIC PETROLEUM DISTILLATE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): 200 MG/M3-A3

NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

### **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

Specific Grav.(70F,21C)	1.030	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< 23	Vapor Density (air=1)	> 1.00
Freeze Point (C)	< -5		
Viscosity(cps 70F,21C)	1300	% Solubility (water)	ND

Odor	Slight Hydrocarbon
Appearance	White To Off-White
Physical State	Emulsion
Flash Point	OPEN CUP > 200F > 93C
pH :	No Data
Evaporation Rate (Ether=1)	< 1.00
Percent VOC:	33.0

NA = not applicable      ND = not determined

## 10 Stability and reactivity

**STABILITY:**

Stable under normal storage conditions.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**INCOMPATIBILITIES:**

May react with strong oxidizers.

**DECOMPOSITION PRODUCTS:**

elemental oxides

## 11 Toxicological information

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

## 12 Ecological information

**AQUATIC TOXICOLOGY**

Daphnia magna 48 Hour Static Acute Bioassay  
LC50= 2.26; No Effect Level= 1.4 mg/L  
Fathead Minnow 96 Hour Static Acute Bioassay  
LC50 Greater Than= 1000 mg/L  
Rainbow Trout 48 Hour Static Screen  
100% Mortality= 250; 0% Mortality= 100 mg/L

**BIODEGRADATION**

BOD-28 (mg/g): 332  
BOD-5 (mg/g): 203  
COD (mg/g): 1240  
TOC (mg/g): 430

## 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

DOT HAZARD: Not Applicable  
PROPER SHIPPING NAME:

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

## 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.

### **MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 16 Other information

**HMIS vII****CODE TRANSLATION**

Health	1	Slight 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:	13-FEB-1997		** NEW **
	01-JUN-1999	15	13-FEB-1997
	06-JUL-2000	12	01-JUN-1999
	03-MAY-2002	3,4	06-JUL-2000
	01-APR-2004	15	03-MAY-2002
	29-MAR-2006	2,3,5,7,8,9,12	01-APR-2004
	03-NOV-2008	3,8	29-MAR-2006