



# Material Safety Data Sheet

Issue Date: 11-SEP-2012  
Supersedes: 10-MAR-2010

POLYFLOC AE1701

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## 1 Identification

**Identification of substance or preparation**  
POLYFLOC AE1701

**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: 11-SEP-2012

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**WARNING**

May cause moderate irritation to the skin. May cause dermatitis.  
May cause moderate irritation to the eyes. Vapors, gases, mists or aerosols may cause irritation to the upper respiratory tract.  
Prolonged exposure may cause dizziness and headache.

DOT hazard: ORS (when container > RQ)  
Odor: Slight Ammonia; 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 moderate irritation to the skin. May cause dermatitis.

**ACUTE EYE EFFECTS:**

May cause moderate irritation to the eyes.

**ACUTE RESPIRATORY EFFECTS:**

Primary route of exposure;Vapors, gases, mists or aerosols may cause irritation to the upper respiratory tract. Prolonged exposure may cause dizziness and headache.

**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
631-61-8	AMMONIUM ACETATE Potential irritant	7-13

**NON-HAZARDOUS INGREDIENTS:**

CAS#	CHEMICAL NAME
7732-18-5	WATER
PROPRIETARY	ANIONIC 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, carbon dioxide, foam or water

**HAZARDOUS DECOMPOSITION PRODUCTS:**

oxides of carbon and ammonia

**FLASH POINT:**

> 200F > 93C P-M(CC)

**MISCELLANEOUS:**

ORS (when container > RQ)  
UN 3082;Emergency Response Guide #171

## 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:**

Clean spill immediately. Wash contaminated skin promptly.

**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

#### 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)

#### AMMONIUM ACETATE

PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.  
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

### 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)	1.068	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	~ ~ 0	Vapor Density (air=1)	< 1.00
Freeze Point (C)	~ -18		
Viscosity(cps 70F, 21C)	1300	% Solubility (water)	ND

Odor	Slight Ammonia
Appearance	White To Off-White
Physical State	Emulsion
Flash Point	P-M(CC) > 200F > 93C
pH 0.5% Sol. (approx.)	8.5
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:****INCOMPATIBILITIES:**

May react with strong oxidizers.

**DECOMPOSITION PRODUCTS:**

oxides of carbon and ammonia

## 11 Toxicological information

Oral LD50 RAT: >5,000 mg/kg  
NOTE - Supplier estimated  
Dermal LD50 RABBIT: >2,000 mg/kg  
NOTE - Supplier estimated  
Inhalation LC50 RAT: >20 mg/L/4hr  
NOTE - Supplier estimated

## 12 Ecological information

**AQUATIC TOXICOLOGY**

Ceriodaphnia 48 Hour Static Acute Bioassay  
LC50= 1.3; No Effect Level= .67 mg/L  
Daphnia magna 48 Hour Static Acute Bioassay  
LC50= 6.2; No Effect Level= .81 mg/L  
Fathead Minnow 96 Hour Static Acute Bioassay  
LC50= 17; No Effect Level= 7 mg/L  
Rainbow Trout 96 Hour Static Acute Bioassay  
LC50= 18.9; No Effect Level= 12.5 mg/L

**BIODEGRADATION**

No Data Available.

## 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: ORS (when container > RQ)  
 DOT: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S.(AMMONIUM ACETATE)  
 9, UN3082, PG III, RQ  
 DOT EMERGENCY RESPONSE GUIDE #: 171  
 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):

5,622 gallons due to AMMONIUM ACETATE; 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:

CAS#	CHEMICAL NAME	RANGE
631-61-8	AMMONIUM ACETATE	6.0-10.0%

### 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:	19-NOV-2009		** NEW **
	10-MAR-2010	14,15	19-NOV-2009
	11-SEP-2012	10	10-MAR-2010