



SAFETY DATA SHEET

POLYFLOC* CP1644

1. Product and Company Identification

Material name POLYFLOC CP1644
Version # 1.0
Revision date 06/01/2014
Supersedes date 06/01/2014
CAS # Mixture
Product application 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

2. Hazards Identification

Emergency overview CAUTION

May cause slight irritation to the skin. May cause slight irritation to the eyes. Dusts may cause irritation to the upper respiratory tract.

Potential health effects

Eyes May cause slight irritation to the eyes.
Skin Primary route of exposure May cause slight irritation to the skin.
Inhalation Inhalation of dusts may cause respiratory irritation.
Target organs No evidence of potential chronic effects.
Signs and symptoms May cause redness or itching of skin.
Medical conditions aggravated by exposure None known.

3. Composition / Information on Ingredients

Non-hazardous components	CAS #
Acrylamide / trimethylamino ethylacrylate chloride copolymer	69418-26-4
Water	7732-18-5

Composition comments 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.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with water for 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists after washing.

Skin contact	Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops and persists.
Inhalation	If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.
Ingestion	Do not feed anything by mouth to an unconscious or convulsive victim. Do NOT induce vomiting! Immediately contact a physician. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water.
Notes to physician	No special instructions.

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	Dry chemical, carbon dioxide, foam or water.
Fire fighting equipment/instructions	Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
Hazardous combustion products	Oxides of carbon Oxides of nitrogen. hydrogen chloride

6. Accidental Release Measures

Environmental precautions	Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.
Methods for cleaning up	Ventilate the contaminated area. Sweep up and remove. Minimize dust generation.
Other information	Ventilate area, use specified protective equipment.

7. Handling and Storage

Handling	Normal chemical handling.
Storage	Store between 0 - 35 °C Keep containers closed when not in use. Keep dry. Store in cool, well ventilated area. Store away from oxidizers. Avoid atmospheric exposure.

8. Exposure Controls / Personal Protection

Engineering controls	Provide adequate ventilation.
Personal protective equipment	
Eye / face protection	Airtight chemical goggles.
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. If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

9. Physical & Chemical Properties

Appearance	
Physical state	Powder
Color	White to off-white
Odor	None
Odor threshold	Not available.
pH in aqueous solution	3.5 (0.5% SOL.)
Vapor pressure	< 0.1 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	< 1 (Air = 1)
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity (70°F, 21°C)	Not available.
Flash point	> 213 °F (> 101 °C) P-M(CC)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.

Evaporation rate	< 1 (Ether = 1)
Viscosity temperature	70 °F (21 °C)
Percent volatile	0 (Estimated)

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Not available.
Incompatible materials	Strong oxidizing substances.
Hazardous decomposition products	Oxides of carbon. Nitrogen oxides (NOx). Hydrogen chloride.

11. Toxicological Information

Toxicological data

Product	Species	Test Results
POLYFLOC CP1644 (CAS Mixture)		
Acute		
<i>Oral</i>		
LD50	Rat	5000 mg/kg

12. Ecological Information

Ecotoxicity

Product	Species	Test Results
POLYFLOC CP1644 (CAS Mixture)		
	LC50	Fathead Minnow
		1.6 mg/l, Static Bioassay with 48-Hour Renewal, 96 hour
		Zebra Fish
		5 mg/l, Acute Toxicity, 96 hour
	NOEL	Fathead Minnow
		0.63 mg/l, Static Bioassay with 48-Hour Renewal, 96 hour
Crustacea	EC50	Daphnia magna
		20 mg/l, Acute Toxicity, 48 hour
Other	LC50	Rainbow Trout
		0.17 mg/l, Static Bioassay with 48-Hour Renewal, 96 hour
	NOEL	Rainbow Trout
		0.06 mg/l, Static Bioassay with 48-Hour Renewal, 96 hour

13. Disposal Considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Review federal, state/provincial, and local government requirements prior to disposal.
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14. Transport Information

DOT

Not regulated as dangerous goods.

Some containers may be DOT exempt, please check BOL for exact container classification.

TDG

Not regulated as a dangerous good.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

None listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity

None listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Acrylamide (CAS 79-06-1) Listed: January 1, 1990 Carcinogenic.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Acrylamide (CAS 79-06-1) Listed: February 25, 2011 Developmental toxin.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Acrylamide (CAS 79-06-1) Listed: February 25, 2011 Male reproductive toxin.

US - Massachusetts RTK - Substance List

Not regulated.

US - Pennsylvania RTK - Hazardous Substances

Not regulated.

US - Rhode Island RTK

Not regulated.

16. Other Information

List of abbreviations

CAS: Chemical Abstract Service Registration Number
TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.
ACGIH: American Conference of Governmental Industrial Hygienists
NOEL: No Observed Effect Level
STEL: Short Term Exposure Limit
LC50: Lethal Concentration, 50%
TWA: Time Weighted Average
BOD: Biochemical Oxygen Demand
COD: Chemical Oxygen Demand
TOC: Total Organic Carbon
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods Code
LD50: Lethal Dose, 50%
NFPA: National Fire Protection Association

HMIS® ratings

Health: 1
Flammability: 1
Physical hazard: 0
Personal protection: B

NFPA ratings

Health: 1
Flammability: 1
Instability: 0
Special hazards: NONE

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product application
Composition / Information on Ingredients: Composition comments

Prepared by

This MSDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

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