

GE Water & Process Technologies

Material Safety Data Sheet

POLYFLOC AE1700

Issue Date: 10-MAR-2010 Supercedes: 05-FEB-2009

1 Identification

Identification of substance or preparation POLYFLOC AE1700

Product Application Area Flocculant.

Company/Undertaking Identification GE Betz, Inc.

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Emergency Telephone

(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 10-MAR-2010

2 Hazard(s) identification

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

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 Rand	ge(w/w%)
64742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE Combustible liquid; irritant; CNS depressant; IARC=3 (carcinogen status not classifiable)	15-40
68002-97-1	ALCOHOLS, C10-C16, ETHOXYLATED Slight Irritant (eyes and skin)	3-7
68551-12-2	ALCOHOLS, C12-16, ETHOXYLATED Severe irritant (eyes); moderate irritant (skin)	3-7
26635-93-8	POLYOXYETHYLENATED OLEYLAMINE	1-5

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 $(60-240\ \text{mL})$ 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 nitrogen, ammonia and volatile amines

FLASH POINT:

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

MISCELLANEOUS:

ORS (when container > RQ)
NON-HAZ; Emergency Response Guide #

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

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

ALCOHOLS,C10-C16,ETHOXYLATED
PEL (OSHA): NOT DETERMINED
TLV (ACGIH): NOT DETERMINED

ALCOHOLS,C12-16,ETHOXYLATED
PEL (OSHA): NOT DETERMINED
TLV (ACGIH): NOT DETERMINED

POLYOXYETHYLENATED OLEYLAMINE
PEL (OSHA): Not determined
TLV (ACGIH): Not determined
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ENGINEERING CONTROLS:

Adequate ventilation to maintain air contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Use protective equipment in accordance with $29\text{CFR}\ 1910\ \text{Subpart}\ \text{I}$

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 organic vapor cartridges and any of the following particulate respirators: R95, R99, R100, P95, P99 or P100.

SKIN PROTECTION:

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

EYE PROTECTION:

splash proof chemical goggles

9 Physical and chemical properties

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Spec. Grav. (70F, 21C) 1.089
                                        Vapor Pressure (mmHG) ~ 18.0
Freeze Point (F) ~ ~ 0
Freeze Point (C) ~ -18
                                        Vapor Density (air=1)
                                                               < 1.00
Viscosity(cps 70F,21C) 985
                                       % Solubility (water)
Odor
                                    Slight Ammonia
Appearance
                                   White To Off-White
Physical State
Flash Point P-M(CC)
                                  Emulsion
                                 > 200F > 93C
pH 0.5% Sol. (approx.)
                                  8.3
Evaporation Rate (Ether=1)
                                  < 1.00
Percent VOC:
                                   30.0
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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, ammonia and volatile amines

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

Skin Irritation Score RABBIT: moderate
Eye Irritation Score rabbit: mild

12 Ecological information

AQUATIC TOXICOLOGY

Ceriodaphnia 48 Hour Static Acute Bioassay LC50= .14; No Effect Level= .03 mg/L Daphnia magna 48 Hour Static Acute Bioassay LC50= .2; No Effect Level= .03 mg/L Fathead Minnow 96 Hour Static Acute Bioassay LC50= 5.2; No Effect Level= 2.5 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: 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 at trace levels 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
MSDS status:	06-JUL-2000		** NEW **
	30-MAY-2001	4,5	06-JUL-2000
	26-FEB-2002	15	30-MAY-2001
	11-MAR-2002	4	26-FEB-2002
	13-DEC-2005	4	11-MAR-2002
	19-DEC-2005	4	13-DEC-2005
	05-FEB-2009	3,5,7,8,10	19-DEC-2005
	10-MAR-2010	3,8,10,14,15	05-FEB-2009