



# Material Safety Data Sheet

Issue Date: 16-NOV-2011 Supercedes: 15-DEC-2008

## KLARAID CDP1314

# **1** Identification

Identification of substance or preparation KLARAID CDP1314

**Product Application Area** Coagulant.

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: 16-NOV-2011

# 2 Hazard(s) identification

## CAUTION

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

DOT hazard: Corrosive to steel Odor: Slight; Appearance: Colorless, Liquid

## POTENTIAL HEALTH EFFECTS

### ACUTE SKIN EFFECTS:

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

### 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:

May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.

#### TARGET ORGANS:

No evidence of potential chronic effects.

### 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. 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%)
1327-41-9	ALUMINUM CHLORIDE,BASIC Potential irritant (eyes and skin)	15-40
25988-97-0 NON-HAZARDOU	DIMETHYLAMINE-EPICHLOROHYDRIN COPOLYMER Irritant (eyes) S INGREDIENTS:	3-7
CAS#	CHEMICAL NAME	

7732-18-5 WATER

## 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:

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 physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

#### NOTES TO PHYSICIANS:

No special instructions

# 5 Fire-fighting measures

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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, hydrogen chloride
FLASH POINT:
> 200F > 93C P-M(CC)
MISCELLANEOUS:
Corrosive to steel
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. Corrosive to metal.

#### STORAGE :

Keep containers closed when not in use. Protect from freezing. If frozen, thaw and mix completely prior to use. Shelf life 135 days.

# 8 Exposure controls / personal protection

### EXPOSURE LIMITS

#### CHEMICAL NAME

ALUMINUM CHLORIDE, BASIC

PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA. TLV (ACGIH): 2 MG/M3(AS Al)

DIMETHYLAMINE-EPICHLOROHYDRIN COPOLYMER

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 288.2 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 any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100. SKIN PROTECTION: rubber, butyl, viton or neoprene gloves -- Wash off after each use. Replace as necessary. EYE PROTECTION: splash proof chemical goggles

# 9 Physical and chemical properties

Spec. Grav. (70F, 21C) 1.189 Vapor Pressure (mmHG) ~ 18.6 Freeze Point (F) ~ ~ 3 Freeze Point (C) ~ -16 Vapor Density (air=1) < 1.00 Viscosity(cps 70F,21C) 27 % Solubility (water) 100.0 Odor Slight Appearance Colorless Liquid Physical State Flash Point P-M(CC) > 200F > 93C 2.4 pH As Is (approx.) < 1.00 Evaporation Rate (Ether=1) 0.0 Percent VOC: NA = not applicable ND = not determined

# 10 Stability and reactivity

### CHEMICAL STABILITY:

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Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:
Contact with strong bases may cause a violent reaction releasing
heat. Contact with water reactive compounds may cause fire or
explosion.
INCOMPATIBILITIES:
May react with bases or strong oxidizers.
DECOMPOSITION PRODUCTS:
oxides of carbon and nitrogen, hydrogen chloride
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# **11 Toxicological information**

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

# **12 Ecological information**

### AQUATIC TOXICOLOGY

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Daphnia magna 48 Hour Static Renewal Bioassay
LC50= 5.5; No Effect Level= 3.13 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 14.2; No Effect Level= 7.6 mg/L
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### BIODEGRADATION

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BOD-28 (mg/g): 1
BOD-5 (mg/g): 1
COD (mg/g): 35
TOC (mg/g): 15
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## **13 Disposal considerations**

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is : D002=Corrosive(steel).

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

# 15 Regulatory information

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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):
          No regulated constituent present at OSHA thresholds
    FOOD AND DRUG ADMINISTRATION:
          21 CFR 176.170 (components of paper and paperboard in contact
          with aqueous and fatty foods)
    NSF Registered and/or meets USDA (according to 1998 Guidelines):
          Registration number: Not Registered
    SARA SECTION 312 HAZARD CLASS:
          Immediate (acute)
    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
```

No regulated constituent present at OSHA thresholds

# **16 Other information**

## HMIS VII

### CODE TRANSLATION

Health	1	Slight Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	В	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

### CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	19-APR-2002		** NEW **
	09-AUG-2002	2,3,4,7,8,16	19-APR-2002
	30-NOV-2005	2,8	09-AUG-2002
	19-DEC-2005	2,8	30-NOV-2005
	15-DEC-2008	4,5,7,8,10	19-DEC-2005
	16-NOV-2011	7,10	15-DEC-2008