

# SAFETY DATA SHEET KLARAID\* PC1195

#### 1. Identification

Product identifier KLARAID PC1195

Other means of identificationNone.Recommended useCoagulantRecommended restrictionsNone known.

## 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. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

Precautionary statement

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified

(HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**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 SDS for our assessment of the potential hazards

of this formulation.

#### 4. First-aid measures

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a Inhalation

physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower.

Get medical attention if irritation develops and persists. Eye contact

If ingestion of a large amount does occur, call a poison control center immediately. Ingestion

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment

needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect

themselves.

## 5. Fire-fighting measures

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Suitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire. Unsuitable extinguishing media

Specific hazards arising from the

chemical

Special protective equipment and

Fire fighting

precautions for firefighters

equipment/instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers / tanks with water spray. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

During fire, gases hazardous to health may be formed.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted **Environmental precautions** waste treatment facility, in accordance with any local agreements.

7. Handling and storage Precautions for safe handling

Avoid prolonged exposure. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Protect from freezing. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation.

#### 8. Exposure controls/personal protection

No exposure limits noted for ingredient(s). Occupational exposure limits

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established,

maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Splash proof chemical goggles.

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Skin protection

Hand protection Chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but

also on other quality features and is different from one producer to the other. Suitable gloves can be recommended by the glove supplier. Glove selection must take into account any solvents and other

hazards present.

Wear suitable protective clothing. Other

If engineering controls do not maintain airborne concentrations below recommended exposure limits Respiratory protection

(where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be worn. 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.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material and General hygiene considerations

before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Color Colorless to amber

Physical state Liquid Amine Odor

Not available. Odor threshold

pH (concentrated product) 5.5

4.7 (5% SOL.) pH in aqueous solution Melting point/freezing point 5 °F (-15 °C) Initial boiling point and boiling 220 °F (104 °C)

range

Flash point > 200 °F (> 93 °C) P-M(CC)

**Evaporation rate** < 1(Ether = 1) Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available. Flammability limit - upper Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. 18 mm Hg Vapor pressure 70 °F (21 °C) Vapor pressure temp. < 1 (Air = 1)Vapor density

1.15 Relative density

Relative density temperature 70 °F (21 °C)

Solubility(ies)

100 % Solubility (water)

**Partition coefficient** Not available.

(n-octanol/water)

Not available.

Auto-ignition temperature Not available. **Decomposition temperature** 4100 cps Viscosity Viscosity temperature 70 °F (21 °C)

Other information

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing. 0 (Estimated) Percent volatile

Material name: KLARAID\* PC1195 Page: 3 / 8 Pour point 20 °F (-7 °C) Specific gravity 1.152

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

**Conditions to avoid**Avoid temperatures exceeding the flash point. Contact with incompatible materials. None under normal

conditions.

**Incompatible materials** Contact with water reactive compounds may cause fire or explosion.

Hazardous decomposition

products

Oxides of carbon and nitrogen evolved in fire.

## 11. Toxicological information

## Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Snacias

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

Acute toxicity

Product

Product	Species	rest results
KLARAID PC1195 (CAS Mixtur	re)	
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hours, (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)

Tact Reculte

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

**Respiratory sensitization**This product is not expected to cause respiratory sensitization. **Skin sensitization**This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or

genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

Not classified.

- repeated exposure Aspiration hazard

Based on available data, the classification criteria are not met.

Chronic effects Prolonged inhalation may be harmful.

# 12. Ecological information

## **Ecotoxicity**

oduct		Species	Test Results
ARAID PC1195 (CAS M	1ixture)		
	IC50	Selenastrum (algae)	> 10 mg/l, Acute Toxicity, 72 hour, (Natural Water)
	LC50	Bluegill Sunfish	0.53 mg/l, Static Acute Bioassay, 96 hour
		Fathead Minnow	0.43 mg/l, Static Renewal Bioassay, 96 hour
		Zebra Fish	> 10 mg/l, Acute Toxicity, 96 hour, (Natural Water)
	NOEL	Bluegill Sunfish	0.32 mg/l, Static Acute Bioassay, 96 hour
		Fathead Minnow	0.25 mg/l, Static Renewal Bioassay, 96 hour
Aquatic			
Crustacea	EC50	Daphnia magna	> 10 mg/l, Acute Toxicity, 48 hour, (Natural Water)
	LC50	Daphnia magna	0.57 mg/l, Static Acute Bioassay, 48 hour
	NOEL	Daphnia magna	0.24 mg/l, Static Acute Bioassay, 48 hour
Fish	LC50	Rainbow Trout	0.41 mg/l, Static Acute Bioassay, 96 hour
	NOEL	Rainbow Trout	0.24 mg/l, Static Acute Bioassay, 96 hour

Bioaccumulative potential

No data available. Mobility in soil

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Persistence and degradability

<70 % degradation in 28 days

CO2 Evolution (Modified Sturm Test) (OECD 301B)

Testing has shown product not to be readily biodegradable.

390 - COD (mgO2/g) 0 - BOD 5 (mgO2/g) - BOD 28 (mgO2/g) 3 2 - Closed Bottle Test (% Degradation in 28 days) - Zahn-Wellens Test (% 1 Degradation in 28 days)

190 - TOC (mg C/g)

#### 13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal instructions** 

Dispose in accordance with all applicable regulations.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal

company.

Waste from residues / unused products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## 14. Transport information

#### DOT

Not regulated as dangerous goods.

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container classification.

#### IATA

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Cationic Polyamine)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards Yes
ERG Code 171

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN3082

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cationic Polyamine), MARINE POLLUTANT **Transport hazard class(es)** 

Class 9
Subsidiary risk Packing group III

**Environmental hazards** 

Marine pollutant Yes F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA; IMDG



#### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

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#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### 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

Not listed.

SARA 311/312 Hazardous

No

chemical

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA)

Hazardous substance

Section 112(r) (40 CFR 68.130)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### 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

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

country(s).

Food and drug administration 21 CFR 176.170 (components of paper and paperboard in contact with aqueous and fatty foods)

21 CFR 176.170 (components of paper and paperboard in contact with aqueous and fatty foods)

## US state regulations

#### US - Massachusetts RTK - Substance List

Not regulated.

#### US - Pennsylvania RTK - Hazardous Substances

Not regulated.

#### US - Rhode Island RTK

Not regulated.

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

## US. New Jersey Worker and Community Right-to-Know Act

Not listed

# US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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

No ingredient listed.

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

No ingredient listed.

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

No ingredient listed.

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

No ingredient listed.

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## 16. Other information, including date of preparation or last revision

Issue date Oct-03-2014
Revision date Dec-21-2016

Version # 1.0

**List of abbreviations** CAS: Chemical Abstract Service Registration Number

ACGIH: American Conference of Governmental Industrial Hygienists

TWA: Time Weighted Average STEL: Short Term Exposure Limit

LD50: Lethal Dose, 50%

LC50: Lethal Concentration, 50% NOEL: No Observed Effect Level COD: Chemical Oxygen Demand BOD: Biochemical Oxygen Demand

TOC: Total Organic Carbon

IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods Code

TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.

**References:** No data available

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information

and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process,

unless specified in the text.

**Revision information** Hazard(s) identification: Hazard statement

Hazard(s) identification: Prevention Hazard(s) identification: Response

Physical & Chemical Properties: Multiple Properties Regulatory information: US federal regulations

**GHS: Classification** 

Prepared by This SDS has been prepared by GE Water & Process Technologies Regulatory Department

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