

# SAFETY DATA SHEET

## BIOMATE\* MBC2881

### 1. Identification

|                               |                 |
|-------------------------------|-----------------|
| Product identifier            | BIOMATE MBC2881 |
| Other means of identification | None.           |
| Recommended use               | Biocide         |
| Recommended restrictions      | None 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     | Corrosive to metals               | Category 1 |
| Health hazards       | Acute toxicity, oral              | Category 4 |
|                      | Acute toxicity, inhalation        | Category 4 |
|                      | Skin corrosion/irritation         | Category 1 |
|                      | Serious eye damage/eye irritation | Category 1 |
|                      | Sensitization, skin               | Category 1 |
| OSHA defined hazards | Not classified.                   |            |

#### Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled.

#### Precautionary statement

**Prevention** Keep only in original container. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves.

**Response** If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

**Storage** Store locked up. Store in corrosive resistant container with a resistant inner liner.

|                                                  |                                                        |
|--------------------------------------------------|--------------------------------------------------------|
| <b>Disposal</b>                                  | Dispose of contents/container to an approved facility. |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.                                            |
| <b>Supplemental information</b>                  | None.                                                  |

### 3. Composition/information on ingredients

#### Mixtures

| Components                        | CAS #      | Percent  |
|-----------------------------------|------------|----------|
| 2,2-dibromo-3-nitrilopropionamide | 10222-01-2 | 20 - 40  |
| Dibromoacetonitrile               | 3252-43-5  | 2.5 - 10 |
| Sodium bromide                    | 7647-15-6  | 2.5 - 10 |

**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

|                                                                               |                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                             | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.                                                                                                              |
| <b>Skin contact</b>                                                           | Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.                                                                                                     |
| <b>Eye contact</b>                                                            | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.                                                                                                                                |
| <b>Ingestion</b>                                                              | If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.                                                                                                                                                                                         |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.                                                                                                                |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |
| <b>General information</b>                                                    | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.                                                                                                             |

### 5. Fire-fighting measures

|                                                                      |                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Carbon dioxide, dry chemicals, foam, water spray (fog).                                                                                                                                                                                                   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                                                                                                                                                                                    |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.                                                                                                                                                                                                     |
| <b>Special protective equipment and precautions for firefighters</b> | Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.                                                                                              |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray. |
| <b>Specific methods</b>                                              | Use standard firefighting procedures and consider the hazards of other involved materials.                                                                                                                                                                |

### 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. 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: Stop the flow of material, if this is without risk. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. Neutralize the spilled material before disposal. Neutralize with approximately 17.2 grams sodium bisulfite or 15.7 grams sodium metabisulfite for every 100 grams biocide product.

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

## Environmental precautions

Avoid discharge into drains, water courses or onto the ground. 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.

## 7. Handling and storage

### Precautions for safe handling

Do not breathe mist or vapor. Do not taste or swallow. Do not mix with alkaline material. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use care in handling/storage.

### Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store in a well-ventilated place. 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

### Occupational exposure limits

#### US. Workplace Environmental Exposure Level (WEEL) Guides

| Components                                                                                                 | Type | Value                | Form         |
|------------------------------------------------------------------------------------------------------------|------|----------------------|--------------|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated (CAS 25322-68-3) | TWA  | 10 mg/m <sup>3</sup> | Particulate. |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### 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. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

#### Skin protection

##### Hand protection

USERS OF A PESTICIDAL PRODUCT SHOULD REFER TO THE PRODUCT LABEL FOR PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS.

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Glove selection must take into account any solvents and other hazards present.

##### Other

Wear appropriate chemical resistant clothing. Wash off after each use. Replace as necessary.

#### 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.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

### Appearance

#### Color

Colorless,yellow,amber

#### Physical state

Liquid

### Odor

Slight

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| Odor threshold                                      | Not available.  |
| pH (concentrated product)                           | 1.9             |
| pH in aqueous solution                              | 3.3 (5% SOL.)   |
| Melting point/freezing point                        | 0 °F (-18 °C)   |
| Initial boiling point and boiling range             | Not available.  |
| Flash point                                         | Not applicable. |
| Evaporation rate                                    | < 1 (Ether = 1) |
| Flammability (solid, gas)                           | Not applicable. |
| <b>Upper/lower flammability or explosive limits</b> |                 |
| Flammability limit - lower (%)                      | Not available.  |
| Flammability limit - upper (%)                      | Not available.  |
| Explosive limit - lower (%)                         | Not available.  |
| Explosive limit - upper (%)                         | Not available.  |
| Vapor pressure                                      | < 0.1 mm Hg     |
| Vapor pressure temp.                                | 70 °F (21 °C)   |
| Vapor density                                       | > 1 (Air = 1)   |
| Relative density                                    | 1.27            |
| Relative density temperature                        | 70 °F (21 °C)   |
| <b>Solubility(ies)</b>                              |                 |
| Solubility (water)                                  | 100 %           |
| Partition coefficient (n-octanol/water)             | Not available.  |
| Auto-ignition temperature                           | Not available.  |
| Decomposition temperature                           | Not available.  |
| Viscosity                                           | 64 cps          |
| Viscosity temperature                               | 70 °F (21 °C)   |
| <b>Other information</b>                            |                 |
| Explosive properties                                | Not explosive.  |
| Oxidizing properties                                | Not oxidizing.  |
| Percent volatile                                    | 0 (Calculated)  |
| Pour point                                          | 5 °F (-15 °C)   |
| Specific gravity                                    | 1.269           |

## 10. Stability and reactivity

|                                    |                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------|
| Reactivity                         | May be corrosive to metals.                                                                             |
| Chemical stability                 | Material is stable under normal conditions.                                                             |
| Possibility of hazardous reactions | Hazardous polymerization does not occur.                                                                |
| Conditions to avoid                | Keep away from heat. Contact with incompatible materials.                                               |
| Incompatible materials             | Strong oxidizing agents. Metals. Contact with strong bases may cause a violent reaction releasing heat. |
| Hazardous decomposition products   | Carbon dioxide, bromine, cyanogen bromide, dibromoacetonitrile                                          |

## 11. Toxicological information

### Information on likely routes of exposure

|              |                                                                |
|--------------|----------------------------------------------------------------|
| Inhalation   | Harmful if inhaled.                                            |
| Skin contact | Causes severe skin burns. May cause an allergic skin reaction. |
| Eye contact  | Causes serious eye damage.                                     |
| Ingestion    | Causes digestive tract burns. Harmful if swallowed.            |

**Symptoms related to the physical, chemical and toxicological characteristics**

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Information on toxicological effects**

**Acute toxicity**

Harmful if swallowed. May cause an allergic skin reaction.

| Product                       | Species | Test Results                                                        |
|-------------------------------|---------|---------------------------------------------------------------------|
| BIOMATE MBC2881 (CAS Mixture) |         |                                                                     |
| <b>Acute</b>                  |         |                                                                     |
| <i>Dermal</i>                 |         |                                                                     |
| LD50                          | Rabbit  | > 5000 mg/kg, (Calculated according to GHS additivity formula)      |
| <i>Inhalation</i>             |         |                                                                     |
| LC50                          | Rat     | 1.3 mg/l, 4 hours, (Calculated according to GHS additivity formula) |
| <i>Oral</i>                   |         |                                                                     |
| LD50                          | Rat     | 510 mg/kg, (Calculated according to GHS additivity formula)         |

| Components                                         | Species | Test Results      |
|----------------------------------------------------|---------|-------------------|
| 2,2-dibromo-3-nitrilopropionamide (CAS 10222-01-2) |         |                   |
| <b>Acute</b>                                       |         |                   |
| <i>Dermal</i>                                      |         |                   |
| LD50                                               | Rabbit  | > 2000 mg/kg      |
| <i>Inhalation</i>                                  |         |                   |
| LC50                                               | Rat     | 0.32 mg/l, 4 Hour |
| <i>Oral</i>                                        |         |                   |
| LD50                                               | Rat     | 206 mg/kg         |
| Dibromoacetonitrile (CAS 3252-43-5)                |         |                   |
| <b>Acute</b>                                       |         |                   |
| <i>Oral</i>                                        |         |                   |
| LD50                                               | Rat     | 245 mg/kg         |
| Sodium bromide (CAS 7647-15-6)                     |         |                   |
| <b>Acute</b>                                       |         |                   |
| <i>Dermal</i>                                      |         |                   |
| LD50                                               | Rabbit  | > 2000 mg/kg      |
| <i>Oral</i>                                        |         |                   |
| LD50                                               | Rat     | 4200 mg/kg        |

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**

Causes skin burns.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitization**

**Respiratory sensitization**

Not available.

**Skin sensitization**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

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

**Carcinogenicity**

Carcinogenic effects are not expected as a result of occupational exposure.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Dibromoacetonitrile (CAS 3252-43-5)

2B Possibly carcinogenic to humans.

**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.

|                                                           |                                                                                                                   |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.                                                                                                   |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.                                                                                                   |
| <b>Aspiration hazard</b>                                  | Based on available data, the classification criteria are not met. May be harmful if swallowed and enters airways. |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.                                |

## 12. Ecological information

### Ecotoxicity

| Product                       | Species | Test Results  |                                           |
|-------------------------------|---------|---------------|-------------------------------------------|
| BIOMATE MBC2881 (CAS Mixture) |         |               |                                           |
| <b>Aquatic</b>                |         |               |                                           |
| Algae                         | ErC50   | Algae         | 1.5 mg/l, Growth Inhibition, 72 hours     |
| Crustacea                     | EC50    | Daphnia magna | 2.5 mg/l, Static Acute Bioassay, 48 hours |
| Fish                          | LC50    | Rainbow Trout | 3.6 mg/l, Static Acute Bioassay, 96 hours |

### Bioaccumulative potential

|                                                          |                               |
|----------------------------------------------------------|-------------------------------|
| <b>Partition coefficient n-octanol / water (log Kow)</b> |                               |
| 2,2-dibromo-3-nitrilopropionamide                        | 0.79                          |
| <b>Bioconcentration factor (BCF)</b>                     |                               |
| 2,2-dibromo-3-nitrilopropionamide                        | 13 Estimated<br>Species: Fish |

**Mobility in soil** No data available.

**Other adverse effects** Not available.

### Persistence and degradability

|                                                 |                                                                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 | 78 % degradation in 28 days<br>CO2 Evolution (Modified Sturm Test) (OECD 301B)<br>(Refers to active component: 2,2-dibromo-3-nitrilopropionamide) |
| - COD (mgO2/g)                                  | 1090 (calculated data)                                                                                                                            |
| - BOD 5 (mgO2/g)                                | 0 (calculated data)                                                                                                                               |
| - BOD 28 (mgO2/g)                               | 0 (calculated data)                                                                                                                               |
| - Closed Bottle Test (% Degradation in 28 days) | 0                                                                                                                                                 |
| - Zahn-Wellens Test (% Degradation in 28 days)  | 0                                                                                                                                                 |
| - TOC (mg C/g)                                  | 300 (calculated data)                                                                                                                             |
| - CO2 evolution (modified Sturm test)           | 78                                                                                                                                                |

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of in approved pesticide facility or according to label instructions. Incinerate the material under controlled conditions in an approved incinerator.

**Hazardous waste code** D002: Waste Corrosive material [pH <=2 or >=12.5, or corrosive to steel]  
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

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

## 14. Transport information

|                                |                                                                               |
|--------------------------------|-------------------------------------------------------------------------------|
| <b>DOT</b>                     |                                                                               |
| <b>UN number</b>               | UN3265                                                                        |
| <b>UN proper shipping name</b> | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2-DIBROMO-3-NITRILOPROPIONAMIDE) |

**Transport hazard class(es)**

Class 8

Subsidiary risk -

Packing group III

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

ERG number 153

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

**IATA**

UN number UN3265

UN proper shipping name Corrosive liquid, acidic, organic, n.o.s. (Dbnpa (2,2-Dibromo-3-Nitrilopropionamide))

**Transport hazard class(es)**

Class 8

Subsidiary risk -

Packing group III

Environmental hazards No.

ERG Code 153

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

**IMDG**

UN number UN3265

UN proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Dbnpa (2,2-Dibromo-3-Nitrilopropionamide))

**Transport hazard class(es)**

Class 8

Subsidiary risk -

Packing group III

**Environmental hazards**

Marine pollutant No.

EmS F-A, S-B

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

**DOT**



**IATA; IMDG**



**15. Regulatory information**

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This is an EPA registered biocide and is exempt from TSCA inventory requirements. See FIFRA registry number.

**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.

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

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

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

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**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) Section 112(r) (40 CFR 68.130)** Hazardous substance

**Safe Drinking Water Act (SDWA)** Not regulated.

**Inventory status**

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|-----------------------------------------------|------------------------|
| Canada                      | Domestic Substances List (DSL)                | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)           | Yes                    |
| 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)  
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).

**FIFRA registration number** 3876-95

**TSCA** This is an EPA registered biocide and is exempt from TSCA inventory requirements.

**FIFRA hazard statement** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER  
Corrosive  
Causes irreversible eye damage  
Harmful if inhaled, swallowed, or absorbed through the skin  
Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals  
This pesticide is toxic to fish and aquatic organisms

**Food and drug administration** The ingredients in this product are approved by FDA under 21 CFR 176.300.

**US state regulations**

**US - Massachusetts RTK - Substance List**

Not regulated.

**US - Pennsylvania RTK - Hazardous Substances**

Not regulated.

**US - Rhode Island RTK**

2,2-dibromo-3-nitrilopropionamide (CAS 10222-01-2)

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

Not listed.



**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Dibromoacetonitrile (CAS 3252-43-5)

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

2,2-dibromo-3-nitrilopropionamide (CAS 10222-01-2)

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

Not listed.

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

Dibromoacetonitrile (CAS 3252-43-5) Listed: May 3, 2011

**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.

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

**Issue date** Oct-17-2014

**Revision date** Nov-01-2016

**Version #** 1.0

**List of abbreviations** CAS: Chemical Abstract Service Registration Number  
TWA: Time Weighted Average  
STEL: Short Term Exposure Limit  
LD50: Lethal Dose, 50%  
LC50: Lethal Concentration, 50%  
EC50: Effect 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  
ACGIH: American Conference of Governmental Industrial Hygienists  
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.

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

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