

## 1. Identification

|   |  |                       |
|---|--|-----------------------|
| <b>Product identifier</b>                                     | <b>MERCURIC NITRATE, MONOHYDRATE, 99.999%</b>  |                       |
| <b>Other means of identification</b>                          |  |                       |
| <b>Product code</b>   | 5045   |                       |
| <b>CAS number</b>   | 7783-34-8  |                       |
| <b>Recommended use</b>  | professional, scientific and technical activities: other professional, scientific and technical activities |                       |
| <b>Recommended restrictions</b>                               | None known.  |                       |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |                       |
| <b>Manufacturer</b>   |  |                       |
| <b>Company name</b>   | GFS Chemicals, Inc.  |                       |
| <b>Address</b>  | 800 Kaderly Drive<br>Columbus, OH 43228<br>United States   |                       |
| <b>Telephone</b>  | Phone  | 740-881-5501          |
|   | Toll Free  | 800-858-9682          |
|   | Fax  | 740-881-5989          |
| <b>Website</b>  | www.gfschemicals.com   |                       |
| <b>E-mail</b>   | service@gfschemicals.com   |                       |
| <b>Emergency phone number</b>                                 | Emergency Assistance   | Chemtrec 800-424-9300 |

## 2. Hazard(s) identification

|                              |  |             |
|------------------------------|--|-------------|
| <b>Physical hazards</b>      | Not classified.  |             |
| <b>Health hazards</b>        | Acute toxicity, oral                                   | Category 2  |
|                              | Acute toxicity, dermal                                 | Category 1  |
|                              | Acute toxicity, inhalation                             | Category 2  |
|                              | Serious eye damage/eye irritation                      | Category 1  |
|                              | Germ cell mutagenicity                                 | Category 2  |
|                              | Reproductive toxicity                                  | Category 1B |
|                              | Specific target organ toxicity, repeated exposure      | Category 1  |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard     | Category 1  |
|                              | Hazardous to the aquatic environment, long-term hazard | Category 1  |
| <b>OSHA defined hazards</b>  | Not classified.  |             |
| <b>Label elements</b>        |  |             |



|                                |   |
|--------------------------------|---|
| <b>Signal word</b>             | Danger  |
| <b>Hazard statement</b>        | Fatal if swallowed. Fatal in contact with skin. Causes serious eye damage. Fatal if inhaled. Suspected of causing genetic defects. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.  |
| <b>Precautionary statement</b> |   |
| <b>Prevention</b>              | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. |

|  |   |
|--|---|
| <b>Response</b>                                  | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Take off immediately all contaminated clothing and wash it before reuse. Collect spillage. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| <b>Storage</b>                                   | Store in a well-ventilated place. Keep container tightly closed. Store locked up.   |
| <b>Disposal</b>                                  | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |
| <b>Supplemental information</b>                  | None.   |

### 3. Composition/information on ingredients

#### Substances

| Chemical name                 | Common name and synonyms | CAS number | %   |
|-------------------------------|--------------------------|------------|-----|
| MERCURIC NITRATE, MONOHYDRATE |                          | 7783-34-8  | 100 |

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

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.                              |
| <b>Skin contact</b>   | Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Rinse skin with water/shower. For minor skin contact, avoid spreading material on unaffected skin.   |
| <b>Eye contact</b>  | Do not rub eyes. 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>  | Call a physician or poison control center immediately. If ingestion of a large amount does occur, call a poison control center immediately. Rinse mouth.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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. Discard any shoes or clothing items that cannot be decontaminated. |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water.  |
| <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. Wear SCBA. |
| <b>Fire fighting equipment/instructions</b>                          | Use water spray to cool unopened containers.  |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.  |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

### 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 dust. 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. |
|--|---|

Material name: MERCURIC NITRATE, MONOHYDRATE, 99.999%

## Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Prevent entry into waterways, sewers, basements or confined areas. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Should not be released into the environment. Clean up in accordance with all applicable regulations. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. This material and its container must be disposed of as hazardous waste. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. For waste disposal, see section 13 of the SDS.

## Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. ACGIH Threshold Limit Values

| Material                                      | Type | Value                   |
|---|------|-------------------------|
| MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) | TWA  | 0.025 mg/m <sup>3</sup> |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Material                                      | Type    | Value                 |
|---|---------|-----------------------|
| MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) | Ceiling | 0.1 mg/m <sup>3</sup> |

### Biological limit values

#### ACGIH Biological Exposure Indices

| Material                                      | Value   | Determinant             | Specimen            | Sampling Time |
|---|---------|-------------------------|---------------------|---------------|
| MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) | 20 µg/g | Total inorganic mercury | Creatinine in urine | *             |

\* - For sampling details, please see the source document.

### Exposure guidelines

#### US - California OELs: Skin designation

MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) Can be absorbed through the skin.

#### US ACGIH Threshold Limit Values: Skin designation

MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) Can be absorbed through the skin.

Material name: MERCURIC NITRATE, MONOHYDRATE, 99.999%

5045

Version #: 01

Revision date: Issue date: July-31-2018

3 / 8

## US NIOSH Pocket Guide to Chemical Hazards: Skin designation

MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) Can be absorbed through the skin.

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) 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. Provide eyewash station.

### 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** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear respirator if there is dust formation.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Observe any medical surveillance requirements. 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.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.

**Form** Crystalline.

**Color** White.

**Odor** Odorless.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** 174.2 °F (79 °C)

**Initial boiling point and boiling range** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

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

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

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** soluble with formation of basic salt

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

### Other information

**Density** 4.30 g/cm<sup>3</sup> estimated at 20 °C

**Explosive properties** Not explosive.

**Molecular formula** Hg(NO<sub>3</sub>)<sub>2</sub>.H<sub>2</sub>O

Material name: MERCURIC NITRATE, MONOHYDRATE, 99.999%

|                             |                |
|-----------------------------|----------------|
| <b>Molecular weight</b>     | 342.62 g/mol   |
| <b>Oxidizing properties</b> | Not oxidizing. |
| <b>Specific gravity</b>     | 4.3 at 20 °C   |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.                           |
| <b>Chemical stability</b>                 | No hazardous self-reactivity.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Organic materials Phosphine. hypophosphorous acid. Acetylene. Ethanol.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known. May include oxides of mercury.   |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                             |
|---------------------|-----------------------------|
| <b>Inhalation</b>   | Fatal if inhaled.           |
| <b>Skin contact</b> | Fatal in contact with skin. |
| <b>Eye contact</b>  | Causes serious eye damage.  |
| <b>Ingestion</b>    | Fatal if swallowed.         |

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

### Information on toxicological effects

**Acute toxicity** Fatal if inhaled. Fatal in contact with skin. Fatal if swallowed.

| Product                                       | Species | Test Results |
|---|---------|--------------|
| MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) |         |              |
| <b>Oral</b>                                   |         |              |
| LD50  | Rat     | 26 mg/kg     |
| <b>Other</b>                                  |         |              |
| LD50  | Mouse   | 8 mg/kg      |

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

**Serious eye damage/eye irritation** Causes serious eye damage.

### Respiratory or skin sensitization

|                                  |   |
|----------------------------------|---|
| <b>Respiratory sensitization</b> | Not a respiratory sensitizer.                             |
| <b>Skin sensitization</b>        | This product is not expected to cause skin sensitization. |

**Germ cell mutagenicity** Suspected of causing genetic defects.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) 3 Not classifiable as to carcinogenicity to humans.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** May damage fertility or the unborn child. This product contains a chemical (mercury compounds) known to the state of California to cause birth defects or other reproductive harm.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Product                                       | Species | Test Results   |
|---|---------|--|
| MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) |         |  |
| <b>Aquatic</b>                                |         |  |
| Fish  | LC50    | Fathead minnow ( <i>Pimephales promelas</i> ) 0.086 - 0.347 mg/l, 96 hours |

**Persistence and degradability** None known.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**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.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** D009: Waste Mercury  
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 (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.

## 14. Transport information

### DOT

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1625  |
| <b>UN proper shipping name</b>      | Mercuric nitrate, MARINE POLLUTANT                                      |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 6.1(PGI, II)  |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 6.1   |
| <b>Packing group</b>                | II  |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | Yes   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | IB8, IP2, IP4, N73, T3, TP33  |
| <b>Packaging exceptions</b>         | 153   |
| <b>Packaging non bulk</b>           | 212   |
| <b>Packaging bulk</b>               | 242   |

### IATA

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1625  |
| <b>UN proper shipping name</b>      | Mercuric nitrate  |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 6.1(PGI, II)  |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | II  |
| <b>Environmental hazards</b>        | No.   |
| <b>ERG Code</b>                     | 6L  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>            |   |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.  |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.  |

### IMDG

|                  |        |
|------------------|--------|
| <b>UN number</b> | UN1625 |
|------------------|--------|

Material name: MERCURIC NITRATE, MONOHYDRATE, 99.999%

5045

Version #: 01

Revision date: Issue date: July-31-2018

6 / 8

**UN proper shipping name** MERCURIC NITRATE, MARINE POLLUTANT  
**Transport hazard class(es)**  
**Class** 6.1(PGI, II)  
**Subsidiary risk** -  
**Packing group** II  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-A, S-A  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**DOT**



**IATA; IMDG**



**Marine pollutant**



**General information** IMDG Regulated Marine Pollutant. DOT Regulated Severe Marine Pollutant.

**15. Regulatory information**

**US federal regulations** This product is 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)**

MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

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

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312** Yes  
**Hazardous chemical**  
**Classified hazard categories** Acute toxicity (any route of exposure)  
 Serious eye damage or eye irritation  
 Germ cell mutagenicity  
 Reproductive toxicity  
 Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

| Chemical name                 | CAS number | % by wt. |
|-------------------------------|------------|----------|
| MERCURIC NITRATE, MONOHYDRATE | 7783-34-8  | 100      |

**Other federal regulations**

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

MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8)

**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  
 Priority pollutant  
 Bioaccumulative chemical of concern  
 Toxic pollutant

**Safe Drinking Water Act (SDWA)** 0.002 mg/l  
 0.002 mg/l

**US state regulations**

**California Proposition 65**



**WARNING:** This product can expose you to MERCURIC NITRATE, MONOHYDRATE, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

MERCURIC NITRATE, MONOHYDRATE (CAS 7783-34-8) Listed: July 1, 1990

**International Inventories**

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | 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).

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

**Issue date** July-31-2018  
**Version #** 01

**Disclaimer** GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.