

# SAFETY DATA SHEET

### 1. Identification

| Product identifier              | COPPER, 1,000 ppm STANDARD SOLUTION  |
|---------------------------------|--|
| Other means of identification   |  |
| Product code                    | 543  |
| Recommended use                 | professional, scientific and technical activities: other professional, scientific and technical activities |
| <b>Recommended restrictions</b> | None known.  |
| Manufacturer/Importer/Supp      | lier/Distributor information   |
| Manufacturer                    |  |

| Company name<br>Address   | GFS Chemicals, Inc.<br>P.O. Box 245<br>Powell, OH 43065<br>United States |  |
|---------------------------|--|--|
| Telephone                 | Phone<br>Toll Free<br>Fax  | 740-881-5501<br>800-858-9682<br>740-881-5989 |
| Website<br>E-mail         | www.gfschemicals.com<br>service@gfschemicals.com                         |  |
| Emergency phone<br>number | Emergency Assistance   | Chemtrec 800-424-9300                        |

### 2. Hazard(s) identification

| Physical hazards      | Not classified.   |             |
|-----------------------|---|-------------|
| Health hazards        | Skin corrosion/irritation                                 | Category 1A |
|                       | Serious eye damage/eye irritation                         | Category 1  |
|                       | Specific target organ toxicity, repeated exposure         | Category 2  |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard        | Category 2  |
|                       | Hazardous to the aquatic environment,<br>long-term hazard | Category 2  |
| OSHA defined hazards  | Not classified.   |             |

#### Label elements

| Signal word                                  | Danger  |
|--|---|
| Hazard statement                             | Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.  |
| Precautionary statement                      |   |
| Prevention                                   | Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment.<br>Wear protective gloves/protective clothing/eye protection/face protection.   |
| 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. Wash contaminated clothing before reuse. Collect spillage. |
| Storage                                      | Store locked up.  |
| Disposal                                     | 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.  |
| Hazard(s) not otherwise<br>classified (HNOC) | None known.   |

% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name           | Common name and synonyms    | CAS number | %       |
|-------------------------|-----------------------------|------------|---------|
| WATER                   |                             | 7732-18-5  | 95.15   |
| NITRIC ACID             |                             | 7697-37-2  | 3 - < 5 |
| CUPRIC NITRATE, HYDRATE | COPPER(II) NITRATE, HYDRATE | 19004-19-4 | 0.4     |

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

| 4. First-aid measures  |  |
|--|--|
| Inhalation   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| Skin contact   | Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.   |
| Eye contact  | 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.  |
| Ingestion  | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.  |
| Most important<br>symptoms/effects, acute and<br>delayed                     | 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. Prolonged exposure may cause chronic effects.  |
| Indication of immediate<br>medical attention and special<br>treatment needed | 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 under observation. Symptoms may be delayed. |
| General information  | 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.  |
| 5. Fire-fighting measures  | 5  |

#### Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters **Fire fighting** Move containers from fire area if you can do so without risk. equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. **General fire hazards** No unusual fire or explosion hazards noted.

### 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of<br>low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe<br>mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate<br>protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant<br>spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|---|---|
| Methods and materials for<br>containment and cleaning up                  | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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.   |
| Environmental precautions   | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.  |
| Material name: COPPER 1 000 ppm ST  |   |

### 7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

| Components   | Туре   | Value                           |                |
|--|--|---------------------------------|----------------|
| NITRIC ACID (CAS<br>7697-37-2)   | PEL  | 5 mg/m3                         |                |
|  |  | 2 ppm                           |                |
| US. ACGIH Threshold Limit  | t Values   |                                 |                |
| Components   | Туре   | Value                           |                |
| NITRIC ACID (CAS<br>7697-37-2)   | STEL   | 4 ppm                           |                |
|  | TWA  | 2 ppm                           |                |
| U.S NIOSH  |  |                                 |                |
| Components   | Туре   | Value                           | Form           |
| CUPRIC NITRATE,<br>HYDRATE (CAS 19004-19-4)  | REL  | 1 mg/m3                         | Dust and mist. |
| <b>US. NIOSH: Pocket Guide t</b>   | to Chemical Hazards  |                                 |                |
| Components   | Туре   | Value                           | Form           |
| CUPRIC NITRATE,<br>HYDRATE (CAS 19004-19-4)  | TWA  | 1 mg/m3                         | Dust and mist. |
| NITRIC ACID (CAS<br>7697-37-2)   | STEL   | 10 mg/m3                        |                |
|  |  | 4 ppm                           |                |
|  | TWA  | 5 mg/m3                         |                |
|  |  | 2 ppm                           |                |
| logical limit values   | No biological exposure limits noted for the ingredient(s). |                                 |                |
| propriate engineering<br>ntrolsGood general ventilation (typically 10 air changes per hour) should be used. Ventilation<br>be matched to conditions. If applicable, use process enclosures, local exhaust venti<br>engineering controls to maintain airborne levels below recommended exposure limit |  | cal exhaust ventilation, or oth |                |

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<br>Hand protection        | Wear appropriate chemical resistant gloves.   |
|---|---|
| Other                                     | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.  |
| Respiratory protection<br>Thermal hazards | In case of insufficient ventilation, wear suitable respiratory equipment.<br>Wear appropriate thermal protective clothing, when necessary.  |
| General hygiene<br>considerations         | 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. |

and emergency shower must be available when handling this product.

limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities

#### 9. Physical and chemical properties

| Appearance     |                   |
|----------------|-------------------|
| Physical state | Liquid.           |
| Form           | Aqueous solution. |
| Color          | Blue.             |
| Odor           | Odorless.         |
| Odor threshold | Not available.    |
| рН             | Not available.    |
|                |                   |

| Melting point/freezing point               | 32 °F (0 °C) estimated    |
|--|---------------------------|
| Initial boiling point and                  | 212 °F (100 °C) estimated |
| boiling range                              |                           |
| Flash point                                | Not available.            |
| Evaporation rate                           | Not available.            |
| Flammability (solid, gas)                  | Not available.            |
| Upper/lower flammability or ex             | xplosive limits           |
| Flammability limit - lower<br>(%)          | Not available.            |
| Flammability limit -<br>upper (%)          | Not available.            |
| Explosive limit - lower<br>(%)             | Not available.            |
| Explosive limit - upper<br>(%)             | Not available.            |
| Vapor pressure                             | Not available.            |
| Vapor density                              | Not available.            |
| Relative density                           | Not available.            |
| Solubility(ies)                            |                           |
| Solubility (water)                         | Not available.            |
| Partition coefficient<br>(n-octanol/water) | Not available.            |
| Auto-ignition temperature                  | Not available.            |
| Decomposition temperature                  | Not available.            |
| Viscosity                                  | Not available.            |
| Other information                          |                           |
| Density                                    | 1.03 g/cm3                |
| Percent volatile                           | 96 % estimated            |
| Specific gravity                           | 1.03                      |
|  |                           |

### 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<br>reactions | Hazardous polymerization does not occur.  |
| Conditions to avoid                   | Contact with incompatible materials.  |
| Incompatible materials                | Strong oxidizing agents.  |
| Hazardous decomposition<br>products   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

| Inhalation   | May cause damage to organs through prolonged or repeated exposure by inhalation. May cause irritation to the respiratory system. Prolonged inhalation may be harmful.   |
|--|---|
| Skin contact   | Causes severe skin burns.   |
| Eye contact  | Causes serious eye damage.  |
| Ingestion  | Causes digestive tract burns.   |
| 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 e   | ffects  |

#### Information on toxicological effects

#### Acute toxicity

| Acute toxicit  |                                    |                |                          |                   |
|----------------|------------------------------------|----------------|--------------------------|-------------------|
| Product        | Species                            |                | Test Results             |                   |
| COPPER, 1,000  | ppm STANDARD SOLUTION (CAS M       | ixture)        |                          |                   |
| Acute          | 9                                  |                |                          |                   |
| Inhala         | ation                              |                |                          |                   |
| LC50           | Mouse                              |                | 5470.8521 mg/l, 30       | Minutes estimated |
| Material name: | COPPER, 1,000 ppm STANDARD SOLUTIC | N              |                          |                   |
| 543            | Version #: 01                      | Revision date: | Issue date: June-11-2015 | 4 / 8             |

|  | Species   | Test Results   |
|--|---|--|
|  |   | 3110 mg/l  |
|  |   | 1502.2422 mg/l, 4 Hours estimated  |
|  | Rat   | 3905 mg/l  |
|  |   | 3094.1704 mg/l, 30 Minutes estimated   |
|  |   | 1457.399 mg/l, 4 Hours estimated   |
| Components   | Species   | Test Results   |
| CUPRIC NITRATE, HYDRATE (CAS   | 19004-19-4)   |  |
| Acute  |   |  |
| Oral   |   |  |
| LD50   | Rat   | 940 mg/kg  |
| NITRIC ACID (CAS 7697-37-2)  |   |  |
| Acute  |   |  |
| Inhalation   | Mouro   | 244 mg/L 20 Minutes  |
| LC50   | Mouse   | 244 mg/l, 30 Minutes   |
|  |   | 67 mg/l, 4 Hours   |
|  | Rat   | 334 mg/l, 30 Minutes   |
|  |   | 244 mg/l, 30 Minutes   |
|  |   | 138 mg/l, 30 Minutes   |
|  |   | 65 mg/l, 4 Hours   |
| * Estimates for product may b  | be based on additional component data not shown.  |  |
|  |   |  |
| Skin corrosion/irritation  | Causes severe skin burns and eye damage.  |  |
| Serious eye damage/eye   | Causes severe skin burns and eye damage.<br>Causes serious eye damage.  |  |
| Serious eye damage/eye<br>rritation  | Causes serious eye damage.  |  |
| Serious eye damage/eye<br>irritation<br>Respiratory or skin sensitizatio<br>Respiratory sensitization  | Causes serious eye damage. on Not available.  |  |
| Serious eye damage/eye<br>irritation<br>Respiratory or skin sensitizatio<br>Respiratory sensitization<br>Skin sensitization  | Causes serious eye damage.<br>on<br>Not available.<br>This product is not expected to cause skin sensitiz   |  |
| Serious eye damage/eye<br>irritation<br>Respiratory or skin sensitization<br>Respiratory sensitization<br>Skin sensitization   | Causes serious eye damage. on Not available.  |  |
| Serious eye damage/eye<br>irritation<br>Respiratory or skin sensitizatio<br>Respiratory sensitization<br>Skin sensitization<br>Germ cell mutagenicity  | Causes serious eye damage.<br>on<br>Not available.<br>This product is not expected to cause skin sensitiz<br>No data available to indicate product or any comp  | oonents present at greater than 0.1% are   |
| Serious eye damage/eye<br>irritation<br>Respiratory or skin sensitization<br>Respiratory sensitization<br>Skin sensitization<br>Germ cell mutagenicity<br>Carcinogenicity  | Causes serious eye damage.<br>on<br>Not available.<br>This product is not expected to cause skin sensitiz<br>No data available to indicate product or any comp<br>mutagenic or genotoxic.   | oonents present at greater than 0.1% are by IARC, ACGIH, NTP, or OSHA.                                   |
| Serious eye damage/eye<br>irritation<br>Respiratory or skin sensitization<br>Respiratory sensitization<br>Skin sensitization<br>Germ cell mutagenicity<br>Carcinogenicity<br>Reproductive toxicity<br>Specific target organ toxicity                           | Causes serious eye damage.<br>on<br>Not available.<br>This product is not expected to cause skin sensitiz<br>No data available to indicate product or any comp<br>mutagenic or genotoxic.<br>This product is not considered to be a carcinogen  | oonents present at greater than 0.1% are by IARC, ACGIH, NTP, or OSHA.                                   |
| Serious eye damage/eye<br>irritation<br>Respiratory or skin sensitization<br>Skin sensitization<br>Germ cell mutagenicity<br>Carcinogenicity<br>Reproductive toxicity<br>Specific target organ toxicity<br>- single exposure<br>Specific target organ toxicity | Causes serious eye damage.<br>on<br>Not available.<br>This product is not expected to cause skin sensitiz<br>No data available to indicate product or any comp<br>mutagenic or genotoxic.<br>This product is not considered to be a carcinogen<br>This product is not expected to cause reproductive                    | oonents present at greater than 0.1% are<br>by IARC, ACGIH, NTP, or OSHA.<br>e or developmental effects. |
|  | Causes serious eye damage.<br>on<br>Not available.<br>This product is not expected to cause skin sensitiz<br>No data available to indicate product or any comp<br>mutagenic or genotoxic.<br>This product is not considered to be a carcinogen<br>This product is not expected to cause reproductive<br>Not classified. | oonents present at greater than 0.1% are<br>by IARC, ACGIH, NTP, or OSHA.<br>e or developmental effects. |

#### 12. Ecological information Ecotoxicity

Very toxic to aquatic life with long lasting effects.

|                     | ,                |                          |                                  |
|---------------------|------------------|--------------------------|----------------------------------|
| Product             |                  | Species                  | Test Results                     |
| COPPER, 1,000 ppm S | STANDARD SOLUTI  | ON (CAS Mixture)         |                                  |
| Aquatic             |                  |                          |                                  |
| Crustacea           | EC50             | Daphnia                  | 71.9167 mg/l, 48 hours estimated |
|                     | LC50             | Daphnia                  | 8450 mg/l, 48 Hours              |
| Fish                | LC50             | Fish                     | 48000 mg/l, 96 Hours             |
|                     |                  |                          | 4300 mg/l, 48 Hours              |
| Components          |                  | Species                  | Test Results                     |
| CUPRIC NITRATE, HY  | DRATE (CAS 19004 | l-19-4)                  |                                  |
| Aquatic             |                  |                          |                                  |
| Crustacea           | EC50             | Water flea (Moina dubia) | 0.037 - 0.044 mg/l, 48 hours     |
|                     |                  |                          |                                  |

| Components         |           | Species  | Test Results                  |
|--------------------|-----------|--|-------------------------------|
| Fish               | LC50      | Winter flounder (Pleuronectes americanus)      | 0.057 - 0.1061 mg/l, 96 hours |
| NITRIC ACID (CAS 7 | 697-37-2) |  |                               |
| Aquatic            |           |  |                               |
| Crustacea          | LC50      | Cockle (Cerastoderma edule)                    | 330 - 1000 mg/l, 48 hours     |
|                    |           | Green or Europeon shore crab (Carcinus maenas) | 180 mg/l, 48 hours            |
| Fish               | LC50      | Starfish (Asterias rubens)                     | 100 - 330 mg/l, 48 hours      |

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

| Persistence and degradability    | No data is available on the degradability of this product.  |
|----------------------------------|---|
| <b>Bioaccumulative potential</b> | 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                     | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| Waste from residues /<br>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                   | Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>Since emptied containers may retain product residue, follow label warnings even after container is<br>emptied.   |

### 14. Transport information

#### DOT

| UN number                       | UN3264   |
|---------------------------------|--|
| UN proper shipping name         | Corrosive liquid, acidic, inorganic, n.o.s. (NITRIC ACID RQ = 22422 LBS) |
| Transport hazard class(es)      |  |
| Class                           | 8  |
| Subsidiary risk                 | -  |
| Label(s)                        | 8  |
| Packing group                   | III  |
| Special precautions for         | Read safety instructions, SDS and emergency procedures before handling.  |
| user                            |  |
| Special provisions              | IB3, T7, TP1, TP28   |
| Packaging exceptions            | 154  |
| Packaging non bulk              | 203  |
| Packaging bulk                  | 241  |
| ΙΑΤΑ                            |  |
| UN number                       | UN3264   |
| UN proper shipping name         | Corrosive liquid, acidic, inorganic, n.o.s. (NITRIC ACID)                |
| Transport hazard class(es)      |  |
| Class                           | 8  |
| Subsidiary risk                 | -  |
| Packing group                   | III  |
| Environmental hazards           | No.  |
| ERG Code                        | 8L   |
| Special precautions for         | Read safety instructions, SDS and emergency procedures before handling.  |
| user                            |  |
| Other information               |  |
| Passenger and cargo<br>aircraft | Allowed.   |
| Cargo aircraft only             | Allowed.   |

IMDG

| UN number<br>UN proper shipping name   | UN3264<br>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)     |
|--|---|
| Transport hazard class(es)   | 0   |
| Class  | 8   |
| Subsidiary risk  | -   |
| Packing group  | III   |
| Environmental hazards  |   |
| Marine pollutant   | No.   |
| EmS  | F-A, S-B  |
| Special precautions for  | Read safety instructions, SDS and emergency procedures before handling. |
| user   |   |
| Transport in bulk according to<br>Annex II of MARPOL 73/78<br>and the IBC Code | Not established.  |

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. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) NITRIC ACID (CAS 7697-37-2) Listed. SARA 304 Emergency release notification NITRIC ACID (CAS 7697-37-2) 1000 LBS Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes **Hazard categories** Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance **Chemical name CAS** number Reportable Threshold Threshold Threshold planning quantity planning planning quantity quantity, lower quantity, upper value value NITRIC ACID 7697-37-2 1000 1000 lbs SARA 311/312 No **Hazardous chemical** 

| Chemical name                                    |                                      | CAS number             | % by wt.  |
|--|--------------------------------------|------------------------|---|
| NITRIC ACID                                      |                                      | 7697-37-2              | 3 - < 5   |
| ther federal regulations                         |                                      |                        |   |
| Clean Air Act (CAA) Section                      | on 112 Hazardous Air Pol             | lutants (HAPs) List    |   |
| Not regulated.                                   |                                      |                        |   |
| Clean Air Act (CAA) Sectio                       | on 112(r) Accidental Rele            | ase Prevention (40     | CFR 68.130)   |
| NITRIC ACID (CAS 7697                            | -37-2)                               |                        |   |
| Safe Drinking Water Act<br>(SDWA)                | Not regulated.                       |                        |   |
| S state regulations                              |                                      |                        |   |
| US. California Controlled                        | Substances. CA Departme              | ent of Justice (Califo | rnia Health and Safety Code Section 11100)          |
| Not listed.                                      |                                      |                        |   |
| US. Massachusetts RTK - S                        |                                      |                        |   |
| CUPRIC NITRATE, HYDR                             |                                      |                        |   |
| NITRIC ACID (CAS 7697                            |                                      | <i>.</i>               |   |
| US. New Jersey Worker a                          |                                      | Know Act               |   |
| CUPRIC NITRATE, HYDR                             |                                      |                        |   |
| NITRIC ACID (CAS 7697<br>US. Pennsylvania Worker | -                                    | Knowlaw                |   |
| CUPRIC NITRATE, HYDR                             |                                      |                        |   |
| NITRIC ACID (CAS 7697                            |                                      |                        |   |
| US. Rhode Island RTK                             | or _,                                |                        |   |
| NITRIC ACID (CAS 7697                            | -37-2)                               |                        |   |
| US. California Proposition                       | 65                                   |                        |   |
| California Safe Drinking                         |                                      |                        | tion 65): This material is not known to contain any |
| nternational Inventories                         |                                      |                        |   |
| Country(s) or region                             | Inventory name                       |                        | On inventory (yes/no)*                              |
| Australia  | Australian Inventory of Cl           | hemical Substances (AI | CS) Yes   |
| Canada   | Domestic Substances List             | (DSL)                  | Yes   |
| Canada   | Non-Domestic Substances              | s List (NDSL)          | No  |
| China  | Inventory of Existing Che            | mical Substances in Ch | ina (IECSC) Yes                                     |
| Europe   | European Inventory of Ex<br>(EINECS) |                        |   |
| Europe   | European List of Notified            | Chemical Substances (I | ELINCS) No  |

| Europe                      | European List of Notified Chemical Substances (ELINCS)            | INO |
|-----------------------------|---|-----|
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)          | Yes |
| Korea                       | Existing Chemicals List (ECL)                                     | Yes |
| New Zealand                 | New Zealand Inventory   | Yes |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | 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<br>Version # | June-11-2015<br>01   |
|-------------------------|--|
| Disclaimer              | GFS Chemicals 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    | Product and Company Identification: Product and Company Identification<br>Composition / Information on Ingredients: Ingredients  |