

### SAFETY DATA SHEET

### 1. Identification

Product identifier COBALT, 1000 ppm STANDARD SOLUTION

Other means of identification

Product code 748

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company name**Address
P.O. Box 245
Powell, OH 43065

United States

**Telephone** Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Websitewww.gfschemicals.comE-mailservice@gfschemicals.com

**Emergency phone** Emergency Assistance Chemtrec 800-424-9300

number

### 2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Skin corrosion/irritation Category 1A

Serious eye damage/eye irritation Category 1
Sensitization, respiratory Category 1
Sensitization, skin Category 1
Carcinogenicity Category 1
Reproductive toxicity Category 1
Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

**OSHA defined hazards** Not classified.

**Label elements** 



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye

damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. 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** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate

ventilation wear respiratory protection.

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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. 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 classified (HNOC)

None known.

**Supplemental information** 

% 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  | 96.14   |  |
| NITRIC ACID    |                          | 7697-37-2  | 3 - < 5 |  |
| COBALT NITRATE |                          | 10026-22-9 | 0.49    |  |

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

#### 4. First-aid measures

**Inhalation** If breathing is difficult, remove 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. If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician.

Skin contact 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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If **Ingestion** 

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delaved

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. Difficulty in breathing. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water

**Indication of immediate** medical attention and special treatment needed

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 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. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

**Special protective equipment** and precautions for

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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.

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#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. 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

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.

Terriove 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.

### 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. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. 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 in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**Value** 

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### 8. Exposure controls/personal protection

### **Occupational exposure limits**

Components

|   | (20 CED 4040 4000)   |   |
|---|----------------------|---|
| US. OSHA Table Z-1 Limits for Air Contaminant | S (29 CFR 1910.1000) | , |

**Type** 

| Components                          | .,,,,           | value      |  |
|-------------------------------------|-----------------|------------|--|
| NITRIC ACID (CAS<br>7697-37-2)      | PEL             | 5 mg/m3    |  |
|                                     |                 | 2 ppm      |  |
| <b>US. ACGIH Threshold Limit Va</b> | lues            |            |  |
| Components                          | Туре            | Value      |  |
| COBALT NITRATE (CAS<br>10026-22-9)  | TWA             | 0.02 mg/m3 |  |
| NITRIC ACID (CAS<br>7697-37-2)      | STEL            | 4 ppm      |  |
|                                     | TWA             | 2 ppm      |  |
| US. NIOSH: Pocket Guide to C        | hemical Hazards |            |  |
| Components                          | Туре            | Value      |  |
| NITRIC ACID (CAS<br>7697-37-2)      | STEL            | 10 mg/m3   |  |
| •                                   |                 | 4 ppm      |  |
|                                     | TWA             | 5 mg/m3    |  |
|                                     |                 | 2 ppm      |  |
|                                     |                 |            |  |

#### **Biological limit values**

**US. ACGIH. BEIs. Biological Exposure Indices** 

| Components  | Value   | Determinant | Specimen | Sampling Time |
|---|---------|-------------|----------|---------------|
| COBALT NITRATE (CAS<br>10026-22-9)                        | 15 μg/l | Cobalt      | Urine    | *             |
| ·   | 1 μg/l  | Cobalt      | Blood    | *             |
| * - For sampling details, please see the source document. |         |             |          |               |

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# 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. General ventilation normally adequate. 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** Wear appropriate chemical resistant gloves.

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

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

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

General hygiene considerations

When using, do not eat, drink or smoke. 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** 

Physical state Liquid.

**Form** Aqueous solution.

ColorColorless.OdorOdorless.Odor thresholdNot available.pHNot available.

Melting point/freezing point

Initial boiling point and

Flammability (solid, gas)

boiling range Flash point

**Evaporation rate** 

32 °F (0 °C) estimated 212 °F (100 °C) estimated

Not available. Not available. Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

**Explosive limit - upper** 

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Relative density Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 1.03 g/cm3 **Percent volatile** 96 % estimated

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Specific gravity 1.03

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### 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** Hazardous polymerization does not occur.

reactions

**Conditions to avoid** Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition** 

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. May cause allergy or asthma symptoms or breathing difficulties

if inhaled. Prolonged inhalation may be harmful.

**Skin contact** Causes severe skin burns. May cause an allergic skin reaction.

**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. Difficulty in breathing.

### Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction.

|                           | .,                         |                                      |
|---------------------------|----------------------------|--------------------------------------|
| Product                   | Species                    | Test Results                         |
| COBALT, 1000 ppm STANDA   | ARD SOLUTION (CAS Mixture) |                                      |
| Acute                     |                            |                                      |
| Inhalation                |                            |                                      |
| LC50                      | Mouse                      | 7218.9351 mg/l, 30 Minutes estimated |
|                           |                            | 3110 mg/l                            |
|                           |                            | 1982.2485 mg/l, 4 Hours estimated    |
|                           | Rat                        | 4082.8403 mg/l, 30 Minutes estimated |
|                           |                            | 3905 mg/l                            |
|                           |                            | 1923.0769 mg/l, 4 Hours estimated    |
| Oral                      |                            | - 1                                  |
| LD                        | Rabbit                     | 51020.4063 mg/kg estimated           |
| LD50                      | Rat                        | 88571.4297 mg/kg estimated           |
| Other                     |                            |                                      |
| LD                        | Rabbit                     | 15306.1221 mg/kg estimated           |
| Components                | Species                    | Test Results                         |
| COBALT NITRATE (CAS 1002  |                            |                                      |
| Oral                      |                            |                                      |
| LD50                      | Rat                        | 434 mg/kg                            |
| Acute                     |                            |                                      |
| Oral                      |                            |                                      |
| LD                        | Rabbit                     | 250 mg/kg                            |
| LD50                      | Rat                        | 434 mg/kg                            |
| Other                     |                            |                                      |
| LD                        | Rabbit                     | 75 mg/kg                             |
| NITRIC ACID (CAS 7697-37- | -2)                        |                                      |
| Acute                     |                            |                                      |
| Inhalation                |                            |                                      |
| LC50                      | Mouse                      | 244 mg/l, 30 Minutes                 |
|                           |                            | 67 mg/l, 4 Hours                     |
|                           |                            |                                      |

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Components

Rat

Rat

334 mg/l, 30 Minutes

244 mg/l, 30 Minutes

138 mg/l, 30 Minutes

65 mg/l, 4 Hours

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** May cause an allergic skin reaction. **Germ cell mutagenicity** Suspected of causing genetic defects.

**Carcinogenicity** May cause cancer.

**Reproductive toxicity** May damage fertility or the unborn child.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not available.

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

exposure.

### 12. Ecological information

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

| Product             |                 | Species  | Test Results                        |
|---------------------|-----------------|--|-------------------------------------|
| COBALT, 1000 ppm S  | TANDARD SOLUTIO | DN (CAS Mixture)                               |                                     |
| Aquatic             |                 |  |                                     |
| Crustacea           | EC50            | Daphnia  | 2088.3674 mg/l, 48 hours estimated  |
| Fish                | LC50            | Fish   | 15255.1016 mg/l, 96 hours estimated |
| Components          |                 | Species  | Test Results                        |
| COBALT NITRATE (CA  | AS 10026-22-9)  |  |                                     |
| Aquatic             |                 |  |                                     |
| Crustacea           | EC50            | Brine shrimp (Artemia salina)                  | 10.233 mg/l, 48 hours               |
| Fish                | LC50            | Goldfish (Carassius auratus)                   | 66.8 mg/l, 96 hours                 |
| NITRIC ACID (CAS 76 | 97-37-2)        |  |                                     |
| 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            |
|                     |                 |  |                                     |

<sup>\*</sup> 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.

**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.

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

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

disposal company.

Waste from residues /

unused products

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.

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

#### DOT

**UN number** UN3264

**UN** proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (NITRIC ACID RQ = 29586 LBS)

Transport hazard class(es)

Class 8 **Subsidiary risk** 8 Label(s) **Packing group** III

Special precautions for

Special provisions

user

Read safety instructions, SDS and emergency procedures before handling.

**Packaging exceptions** 154 203 Packaging non bulk **Packaging bulk** 241

**IATA** 

**UN** number UN3264

**UN** proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (NITRIC ACID)

IB3, T7, TP1, TP28

Transport hazard class(es)

8 Class **Subsidiary risk** Packing group III **Environmental hazards** No. **ERG Code** 8L

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Other information

Allowed.

Cargo aircraft only Allowed.

**IMDG** 

**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** 

Marine pollutant No. **EmS** F-A, S-B

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

user

**Transport in bulk according to** Not established.

Annex II of MARPOL 73/78 and the IBC Code

DOT



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### 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)** 

COBALT NITRATE (CAS 10026-22-9) Listed. 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)

Hazard categories

Immediate Hazard - Yes
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 quantity planning quantity planning quantity, lower quantity, upper value value

NITRIC ACID 7697-37-2 1000 1000 lbs

**SARA 311/312** No

**Hazardous chemical** 

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.NITRIC ACID7697-37-23 - < 5</td>

### Other federal regulations

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

COBALT NITRATE (CAS 10026-22-9)

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

NITRIC ACID (CAS 7697-37-2)

Safe Drinking Water Act Not regulated. (SDWA)

#### **US state regulations**

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

Not listed.

**US. Massachusetts RTK - Substance List** 

COBALT NITRATE (CAS 10026-22-9) NITRIC ACID (CAS 7697-37-2)

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

COBALT NITRATE (CAS 10026-22-9) NITRIC ACID (CAS 7697-37-2)

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

COBALT NITRATE (CAS 10026-22-9) NITRIC ACID (CAS 7697-37-2)

**US. Rhode Island RTK** 

NITRIC ACID (CAS 7697-37-2)

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

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

#### **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)               | 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                    |
|                             |  |                        |

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

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

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

**Issue date** June-15-2015

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**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

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