

1. Identification

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|---|--|-----------------------|--|
| Product identifier | CADMIUM CHLORIDE, HYDRATED, REAGENT (ACS) | | |
| Other means of identification | | | |
| Product code | 869 | | |
| Synonyms | CADMIUM CHLORIDE, HEMIPENTAHYDRATE | | |
| 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 | GFS Chemicals, Inc. | | |
| Address | P.O. Box 245 Powell, OH 43065 United States | | |
| Telephone | Phone | 740-881-5501 | |
| | Toll Free | 800-858-9682 | |
| | Fax | 740-881-5989 | |
| Website | www.gfschemicals.com | | |
| E-mail | service@gfschemicals.com | | |
| Emergency phone number | Emergency Assistance | Chemtrec 800-424-9300 | |

2. Hazard(s) identification

| | | |
|------------------------------|--|------------|
| Physical hazards | Not classified. | |
| Health hazards | Acute toxicity, oral | Category 3 |
| | Acute toxicity, dermal | Category 4 |
| | Acute toxicity, inhalation | Category 2 |
| | Carcinogenicity | Category 1 |
| | Reproductive toxicity | Category 1 |
| | Specific target organ toxicity, repeated exposure | Category 1 |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 1 |
| | Hazardous to the aquatic environment, long-term hazard | Category 1 |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | |
|--------------------------------|---|
| Signal word | Danger |
| Hazard statement | Toxic if swallowed. Harmful in contact with skin. Fatal if inhaled. May cause cancer. 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. |
| Precautionary statement | |
| Prevention | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume. 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 respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash before reuse. Collect spillage. Rinse mouth. |

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| Storage | Store in a well-ventilated place. Keep container tightly closed. 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 | None. |

3. Composition/information on ingredients

Substances

| Chemical name | Common name and synonyms | CAS number | % |
|----------------------------|------------------------------------|------------|-----|
| CADMIUM CHLORIDE, HYDRATED | CADMIUM CHLORIDE, HEMIPENTAHYDRATE | 7790-78-5 | 100 |

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

4. First-aid measures

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|---|---|
| Inhalation | 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. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops or persists. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse. |
| Eye contact | 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. Get medical attention if irritation develops or persists. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion | Call a physician or poison control center immediately. Rinse mouth. Drink plenty of water. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. |
| Most important symptoms/effects, acute and delayed | Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim warm. 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. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). Use any media suitable for the surrounding fires. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | In the event of fire fumes of cadmium may be formed. |
| Special protective equipment and precautions for firefighters | Firefighters should wear full protective clothing including self contained breathing apparatus. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. |
| 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

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| 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 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. |
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Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas. Stop leak if you can do so without risk.

Large Spills: Wet down with water and dike for later disposal. Sweep up or gather material and place in appropriate container for disposal. Avoid dust formation. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal flush contaminated area thoroughly with water. Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. This material and its container must be disposed of as hazardous waste.

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. Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. 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. Observe good industrial hygiene practices. Wash contaminated clothing before reuse.

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). Store in a cool dry place.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA

| Material | Type | Value | Form |
|--|------|-------------|-------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | TWA | 0.005 mg/m3 | as Cd |

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

| Material | Type | Value |
|--|------|-------------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | TWA | 0.005 mg/m3 |

ACGIH

| Material | Type | Value | Form |
|--|------|-------------|---------------------------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | TWA | 0.01 mg/m3 | total dust as Cd |
| | | 0.002 mg/m3 | respirable fraction as Cd |

US. ACGIH Threshold Limit Values

| Material | Type | Value | Form |
|--|------|-------------|----------------------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | TWA | 0.01 mg/m3 | |
| | | 0.002 mg/m3 | Respirable fraction. |

Biological limit values

US. ACGIH. BEIs. Biological Exposure Indices

| Material | Value | Determinant | Specimen | Sampling Time |
|--|--------|-------------|---------------------|---------------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | 5 µg/g | Cadmium | Creatinine in urine | * |

US. ACGIH. BEIs. Biological Exposure Indices

| Material | Value | Determinant | Specimen | Sampling Time |
|----------|-------|-------------|----------|---------------|
|----------|-------|-------------|----------|---------------|

5 µg/l

Cadmium

Blood

*

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

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.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves.

Other

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

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear respirator if there is dust formation.

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.

9. Physical and chemical properties**Appearance**

Crystals

Physical state

Solid.

Form

Solid.

Color

White.

Odor

Odorless.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

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)**

1680 g/l

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Other information**Density**

3.327 g/cm3

Material name: CADMIUM CHLORIDE, HYDRATED, REAGENT (ACS)

869

Version #: 01

Revision date:

Issue date: August-24-2015

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| | |
|--------------------------|--|
| Molecular formula | CdCl ₂ ·2.5H ₂ O |
| Molecular weight | 228.35 g/mol |
| Specific gravity | 3.33 |

10. Stability and reactivity

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|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Avoid high temperatures. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | Chlorine. Decomposition of this product may yield metallic oxides. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | Fatal if inhaled. |
| Skin contact | Harmful in contact with skin. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Toxic if swallowed. |

| | |
|---|--|
| Symptoms related to the physical, chemical and toxicological characteristics | Direct contact with eyes may cause temporary irritation. |
|---|--|

Information on toxicological effects

| | |
|-----------------------|---|
| Acute toxicity | Fatal if inhaled. Toxic if swallowed. Harmful in contact with skin. |
|-----------------------|---|

| Product | Species | Test Results |
|--|---------|--------------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Mouse | 60 mg/kg |
| | Rat | 88 mg/kg |
| <i>Other</i> | | |
| LD50 | Mouse | 3.5 mg/kg |

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

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

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

Respiratory or skin sensitization

| | |
|----------------------------------|---|
| Respiratory sensitization | Not available. |
| Skin sensitization | This product is not expected to cause skin sensitization. |

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|-------------------------------|--|
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
|-------------------------------|--|

| | |
|------------------------|-------------------|
| Carcinogenicity | May cause cancer. |
|------------------------|-------------------|

IARC Monographs. Overall Evaluation of Carcinogenicity

| | |
|--|---------------------------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | 1 Carcinogenic to humans. |
|--|---------------------------|

US OSHA Hazard Categories (1)

| | |
|--|--------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | Cancer |
|--|--------|

US. National Toxicology Program (NTP) Report on Carcinogens

| | |
|--|-------------------------------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | Known To Be Human Carcinogen. |
|--|-------------------------------|

| | |
|------------------------------|---|
| Reproductive toxicity | May damage fertility or the unborn child. |
|------------------------------|---|

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|---|-----------------|
| 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 available. |
|--------------------------|----------------|

Chronic effects

Hazardous by WHMIS criteria. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Causes 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 |
|--|---------|---|--------------------------------|
| CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 0.0093 - 0.0102 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 0.006 mg/l, 96 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.

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. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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 / 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 | UN2570 |
| UN proper shipping name | Cadmium compounds (CADMIUM CHLORIDE) |
| Transport hazard class(es) | |
| Class | 6.1(PGIII) |
| Subsidiary risk | - |
| Label(s) | 6.1 |
| Packing group | III |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions | IB8, IP3, T1, TP33 |
| Packaging exceptions | 153 |
| Packaging non bulk | 213 |
| Packaging bulk | 240 |

IATA

| | |
|-------------------------------------|---|
| UN number | UN2570 |
| UN proper shipping name | Cadmium compound (CADMIUM CHLORIDE) |
| Transport hazard class(es) | |
| Class | 6.1(PGIII) |
| Subsidiary risk | - |
| Packing group | III |
| Environmental hazards | No. |
| ERG Code | 6L |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

Other information

Passenger and cargo aircraft Allowed.
Cargo aircraft only Allowed.

IMDG

UN number UN2570
UN proper shipping name CADMIUM COMPOUND (CADMIUM CHLORIDE)
Transport hazard class(es)
Class 6.1(PGIII)
Subsidiary risk -
Packing group III
Environmental hazards
Marine pollutant No.
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****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)

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) Listed.

SARA 304 Emergency release notification

Not regulated.

US OSHA Hazard Categories (1)

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) Cancer

US OSHA Hazard Categories (2)

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) Lung

US OSHA Hazard Categories (3)

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) Kidney

US OSHA Hazard Categories (4)

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) Acute toxicity

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

Not listed.

SARA 311/312 Yes

Hazardous chemical**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|----------------------------|------------|----------|
| CADMIUM CHLORIDE, HYDRATED | 7790-78-5 | 100 |

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

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5)

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

Not regulated.

Clean Water Act (CWA) Hazardous substance
Section 112(r) (40 CFR Priority pollutant
68.130) Toxic pollutant

Safe Drinking Water Act 0.005 mg/l
(SDWA) 0.005 mg/l

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

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

Not listed.

US. Massachusetts RTK - Substance List

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5)

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

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5)

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

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) Listed: October 1, 1987

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

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) Listed: May 1, 1997

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

CADMIUM CHLORIDE, HYDRATED (CAS 7790-78-5) Listed: May 1, 1997

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) | No |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| 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 | August-24-2015 |
| Version # | 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: Synonyms Hazards Identification: US Hazardous Composition / Information on Ingredients: Disclosure Overrides Exposure Controls / Personal Protection: OELs Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Transport Information: Proper Shipping Name/Packing Group Regulatory Information: Risk Phrases - Class. HazReg Data: North America GHS: Classification |