

# SAFETY DATA SHEET

## 1. Identification

| Product identifier   | COPPER NITRATE TECHNICAL AND REAGENT  |   |
|--|---|---|
| Other means of identification  |   |   |
| Product code   | 1266,1732   |   |
| Synonym(s)   | Copper (II) Nitrate, Trihydrate (CAS# 10031-43-3) * C   | Cupric Nitrate, Anhydrous (CAS#3251-23-8)   |
| Recommended use  | Not available.  |   |
| <b>Recommended restrictions</b>  | None known.   |   |
| Manufacturer/Importer/Supplier   | Distributor information   | Distributed by  |
| Manufacturer   |   | The Science Company   |
| Manufacturer / Supplier:<br>Address:   | The Shepherd Chemical Company<br>4900 Beech Street<br>Norwood, Ohio 45212 USA                 | 7625 W Hampden Ave, #14<br>Lakewood CO 80227  |
| Telephone:<br>Fax:<br>Emergency USA:<br>Emergency International:<br>Emergency EU | 513-731-1110<br>513-731-2151<br>CHEMTREC: 800-424-9300<br>CHEMTREC: 00 1 703-527-3887<br>+112 | Ph: 303-777-3777<br><u>sales@sciencecompany.com</u><br>Cat. No. NC-0303, NC-7972,<br>NC-10229 |

# 2. Hazard(s) identification

| Physical hazards      | Oxidizing solids                                       | Category 2  |
|-----------------------|--|-------------|
| Health hazards        | Acute toxicity, oral                                   | Category 4  |
|                       | Skin corrosion/irritation                              | Category 2  |
|                       | Serious eye damage/eye irritation                      | Category 2A |
| 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                             | May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.   |
| Precautionary statement                      |  |
| Prevention                                   | Keep away from heat. Take any precaution to avoid mixing with combustibles. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/eye protection/face protection.   |
| Response                                     | If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage. |
| Storage                                      | Store away from incompatible materials.  |
| Disposal                                     | Dispose of contents/container in accordance with local/regional/national/international regulations.  |
| Hazard(s) not otherwise<br>classified (HNOC) | None known.  |
| Supplemental information                     | Not applicable.  |

## 3. Composition/information on ingredients

## Mixtures

| Chemical name                      | Common name and synonyms                  | CAS number | %   |
|------------------------------------|---|------------|-----|
| COPPER (II) NITRATE,<br>TRIHYDRATE | Cupric Nitrate, Anydrous (CAS# 3251-23-8) | 10031-43-3 | 100 |

\*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   | Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash 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. Get medical attention if irritation develops and persists.  |
| Ingestion  | Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  |
| Most important<br>symptoms/effects, acute and<br>delayed                     | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain.   |
| Indication of immediate<br>medical attention and special<br>treatment needed | Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.  |
| General information  | In the case of accident or if you feel unwell, seek medical advice immediately (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  |  |
| Suitable extinguishing media   | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).  |
| Unsuitable extinguishing media   | None known.  |
| Specific hazards arising from the chemical                                   | May intensify fire; oxidizer.  |
| Special protective equipment<br>and precautions for firefighters             | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.   |
| Fire-fighting<br>equipment/instructions                                      | In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.   |
| Specific methods   | Cool containers exposed to flames with water until well after the fire is out.   |
| General fire hazards   | May intensify fire; oxidizer.  |
| 6. Accidental release meas   | sures  |
| 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 low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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                        | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. Stop the flow of material, if this is without risk. Collect spillage. Following product recovery, flush area with water. For waste |

**Environmental precautions** 

#### Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling Keep away from heat. Take any precaution to avoid mixing with combustibles. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

disposal, see section 13 of the SDS.

Conditions for safe storage, including any incompatibilities Keep away from heat. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Do not store near combustible materials.

# 8. Exposure controls/personal protection

## **Occupational exposure limits**

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components   |  | Туре  | Value                | Percent          | Form                  |
|--|--|---|----------------------|------------------|-----------------------|
| COPPER (II) NITRATE, TRIHYDRATE (10031-43-3)   |  | PEL   | 1 mg/m3              | 100%             | (as Cu) Dust and mist |
| US. ACGIH Threshold Lim  | iit Values   |   |                      |                  |                       |
| Components   |  | Туре  | Value                | Percent          | Form                  |
| COPPER (II) NITRATE, TR  | IHYDRATE (10031-43-3)  | TWA   | 1 mg/m3              | 100%             | (as Cu) Dust and mist |
| US. NIOSH: Pocket Guide  | to Chemical Hazards  |   |                      |                  |                       |
| Components   |  | Туре  | Value                | Percent          | Form                  |
| COPPER (II) NITRATE, TRIHYDRATE (10031-43-3)   |  | TWA   | 1 mg/m3              | 100%             | (as Cu) Dust and mist |
| ological limit values  | No biological exposure l   | imits noted for   | the ingredient(s).   |                  |                       |
| propriate engineering<br>ntrols  | should be matched to co<br>or other engineering cor<br>exposure limits have no | 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. Eye wash facilities and emergency shower must be available when handling this product. |                      |                  |                       |
| lividual protection measure  | s, such as personal protec   | ctive equipme   | nt                   |                  |                       |
| Eye/face protection  | Wear eye/face protectio  | n. Wear safety  | glasses with side s  | hields (or goggl | es).                  |
| Skin protection  | Weer entrentiete chemi   | ical registant a  | 0.400                |                  |                       |
| Hand protection<br>Other   | Wear appropriate chemi   | 0   |                      |                  |                       |
|  |  | Wear appropriate chemical resistant clothing.   |                      |                  |                       |
| Respiratory protection   |  | In case of insufficient ventilation, wear suitable respiratory equipment.   |                      |                  |                       |
| Thermal hazards  | Wear appropriate therm   | •   | 0                    | ,                |                       |
| eneral hygiene When using, do not eat, or<br>onsiderations as washing after handling<br>wash work clothing and p |  | ng the material   | and before eating, o | drinking, and/or |                       |

# 9. Physical and chemical properties

| Appearance                              |                           |
|---|---------------------------|
| Physical state                          | Solid.                    |
| Form                                    | Solid.                    |
| Color                                   | Blue.                     |
| Odor                                    | Slight nitric acid odor.  |
| Odor threshold                          | Not available.            |
| рН                                      | Not available.            |
| Melting point/freezing point            | 491 °F (255 °C) estimated |
| 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 exp         | osive limits              |
| Flammability limit - lower<br>(%)       | Not available.            |
| Flammability limit - upper<br>(%)       | Not available.            |
| Explosive limit - lower (%)             | Not available.            |
| Explosive limit - upper (%)             | Not available.            |
| Vapor pressure                          | 0 hPa estimated           |
| 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.  |   |  |
| Loose Packing Density  | Not available.  |   |  |
| 10. Stability and reactivity   |   |   |  |
| Reactivity   | The product is stable and non-reactive under non  | mal 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  | Excessive heat. Contact with incompatible mater   | ials.   |  |
| Incompatible materials   | Incompatible with easily oxidizable materials.  |   |  |
| Hazardous decomposition<br>products  | No hazardous decomposition products are known   | ח.  |  |
| 11. Toxicological informat   | ion   |   |  |
| Information on likely routes of e  |   |   |  |
| Ingestion  | Harmful if swallowed.   |   |  |
| Inhalation   | Prolonged inhalation may be harmful.  |   |  |
| Skin contact   | Causes skin irritation.   |   |  |
| Eye contact  | Causes serious eye irritation.  |   |  |
| Symptoms related to the<br>physical, chemical and<br>toxicological characteristics | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |   |  |
| Information on toxicological effe  | ects  |   |  |
| Acute toxicity   | Harmful if swallowed.   |   |  |
| Components   | Species   | Test Results                                  |  |
| COPPER (II) NITRATE, TRIHYDF   | ATE (CAS 10031-43-3)  |   |  |
| Acute  |   |   |  |
| Oral   |   |   |  |
| LD50   | Rat   | 940 mg/kg                                     |  |
| * Estimates for product may b  | e based on additional component data not shown.   |   |  |
| Skin corrosion/irritation  | Causes skin irritation.   |   |  |
| Serious eye damage/eye<br>irritation   | Causes serious eye irritation.  |   |  |
| Respiratory or skin sensitizatior  | 1   |   |  |
| <b>Respiratory sensitization</b>   | Not available.  |   |  |
| Skin sensitization   | This product is not expected to cause skin sensit   | ization.                                      |  |
| Germ cell mutagenicity   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.            |   |  |
| Carcinogenicity  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.   |   |  |
| Reproductive toxicity  | This product is not expected to cause reproductive  | ve or developmental effects.                  |  |
| Specific target organ toxicity -<br>single exposure                                | Not classified.   |   |  |
| Specific target organ toxicity -<br>repeated exposure                              | Not classified.   |   |  |
| A opiration barand   | Not available.  |   |  |
| Aspiration hazard  |   |   |  |

12. Ecological information

**Chronic effects** 

Ecotoxicity

## Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Prolonged inhalation may be harmful.

| Product                               |  | Species  | Test Results                   |  |  |
|---------------------------------------|--|--|--------------------------------|--|--|
| COPPER (II) NITRATE, TRII             | HYDRATE (CAS   | S Mixture)   |                                |  |  |
| Crustacea                             | EC50   | Daphnia  | 0.2877 mg/l, 48 hoursestimated |  |  |
| Fish                                  | LC50   | Fish   | 0.917 mg/l, 96 hoursestimated  |  |  |
| Components                            |  | Species  | Test Results                   |  |  |
| COPPER (II) NITRATE, TRI              | HYDRATE (CAS   | S 10031-43-3)  |                                |  |  |
| Aquatic                               |  |  |                                |  |  |
| Crustacea                             | EC50   | Water flea (Moina dubia)   | 0.037 - 0.044 mg/l, 48 hours   |  |  |
| Fish                                  | LC50   | Winter flounder (Pleuronectes americanus)  | 0.057 - 0.1061 mg/l, 96 hours  |  |  |
| * Estimates for product may           | be based on ad   | ditional component data not shown.   |                                |  |  |
| ersistence and degradability          | No data is a   | No data is available on the degradability of this product.   |                                |  |  |
| oaccumulative potential               | No data ava  | No data available.   |                                |  |  |
| obility in soil                       | No data ava  | No data available.   |                                |  |  |
| ther 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.  |  |                                |  |  |
| 3. Disposal consideratio              | ons  |  |                                |  |  |
| sposal instructions                   | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. 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. |  |                                |  |  |
| ocal disposal regulations             | Dispose in accordance with all applicable regulations.   |  |                                |  |  |
| azardous waste code                   |  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |                                |  |  |
| aste from residues / unused<br>oducts | 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).   |  |                                |  |  |
| ontaminated 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 emptied.   |  |                                |  |  |
| 4. Transport informatior              | ı  |  |                                |  |  |

## 14. Transport information

| DOT   |   |
|---|---|
| UN number   | UN1477  |
| UN proper shipping name<br>Transport hazard class(es) | NITRATES, INORGANIC, N.O.S. (CUPRIC NITRATE), MARINE POLLUTANT          |
| Class   | 5.1   |
| Subsidiary risk                                       | -   |
| Label(s)  | 5.1   |
| Packing group   |   |
| Environmental hazards                                 |   |
| Marine pollutant                                      | Yes   |
| Special precautions for user                          | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions                                    | IB8, IP3, T1, TP33  |
| Packaging exceptions                                  | 152   |
| Packaging non bulk                                    | 213   |
| Packaging bulk  | 240   |
| DOT BULK  |   |
| UN number   | UN1477  |
| UN proper shipping name                               | NITRATES, INORGANIC, N.O.S. (CUPRIC NITRATE RQ = 100 LBS)               |
| Transport hazard class(es)                            |   |
| Class   | 5.1   |
| Subsidiary risk                                       | -   |
| Label(s)  | 5.1   |
| Packing group   |   |
| Environmental hazards                                 |   |
| Marine pollutant                                      | Yes   |
|   | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions                                    | 62, IB5, IP1  |
| Packaging exceptions                                  | None  |

| Packaging non bulk<br>Packaging bulk<br>IATA  | 211<br>242  |
|---|---|
| UN number<br>UN proper shipping name<br>Transport hazard class(es)  | UN1477<br>NITRATES, INORGANIC, N.O.S. (CUPRIC NITRATE)  |
| Class<br>Subsidiary risk<br>Label(s)  | 5.1<br>-<br>5.1   |
| Packing group<br>Environmental hazards<br>ERG Code  | III<br>yes<br>5L  |
|   | Read safety instructions, SDS and emergency procedures before handling.                                       |
| Passenger and cargo<br>aircraft<br>Cargo aircraft only  | Forbidden.  |
| IMDG  | Alloweu.  |
| UN number<br>UN proper shipping name<br>Transport hazard class(es)  | UN1477<br>NITRATES, INORGANIC, N.O.S. (CUPRIC NITRATE), MARINE POLLUTANT                                      |
| Class<br>Subsidiary risk<br>Packing group<br>Environmental hazards  | 5.1<br>-<br>III   |
| Marine pollutant<br>EmS<br>Special precautions for user<br>Transport in bulk according to<br>Annex II of MARPOL 73/78 and<br>the IBC Code | Yes<br>F-A, S-F<br>Read safety instructions, SDS and emergency procedures before handling.<br>Not applicable. |

DOT



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)

COPPER (II) NITRATE, TRIHYDRATE (CAS 10031-43-3) LISTED

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| Hazard categories                         | Immediate Hazard - Yes<br>Delayed Hazard - No<br>Fire Hazard - Yes<br>Pressure Hazard - No<br>Reactivity Hazard - No |
|---|--|
| SARA 302 Extremely<br>hazardous substance | No   |
| SARA 311/312 Hazardous                    | Yes  |

chemical

#### SARA 313 (TRI reporting)

| Chemical name                         | CAS number | % by wt. |  |
|---------------------------------------|------------|----------|--|
| COPPER COMPOUNDS N100                 | 10031-43-3 | 100      |  |
| NITRATE COMPOUNDS (WATER DISSOCIABLE) |            | 100      |  |
| N511                                  |            |          |  |

### Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

#### US state regulations

## **US. Massachusetts RTK - Substance List**

COPPER (II) NITRATE, TRIHYDRATE (CAS 10031-43-3)

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

500 LBS

#### US. Pennsylvania RTK - Hazardous Substances

COPPER (II) NITRATE, TRIHYDRATE (CAS 10031-43-3)

### **US. Rhode Island RTK**

#### **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<br>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                    |

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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           | 07-15-2014  |  |  |  |
|----------------------|---|--|--|--|
| Revision date        | 07-17-2014  |  |  |  |
| Version #            | 02  |  |  |  |
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| Revision Information | Transport Information: Material Transportation Information  |  |  |  |