


**1. Identification**

**Product identifier** **MBC 215**  
**Other means of identification**  
**Product code** MBC 215  
**Recommended use** Microbiocide  
**Recommended restrictions** For Industrial Use Only  
**Manufacturer/Importer/Supplier/Distributor information**  
**Manufacturer**  
**Company name** Nashville Chemical & Equipment Company  
**Address** 7001 Westbelt Drive  
 Nashville, TN 37209  
 United States  
**Telephone** 1-615-350-7070  
**E-mail** info@nashchem.com  
**Emergency phone number** 1-800-424-9300

**2. Hazard(s) identification**

**Physical hazards** Not classified.  
**Health hazards** Skin corrosion/irritation Category 1B  
 Serious eye damage/eye irritation Category 1  
 Sensitization, skin Category 1  
**Environmental hazards** Not classified.  
**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.  
**Precautionary statement**  
**Prevention** Do not breathe mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. 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/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  
**Storage** Store locked up.  
**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Hazard(s) not otherwise classified (HNOC)** None known.  
**Supplemental information** None.

**3. Composition/information on ingredients**

**Mixtures**

| Chemical name                            | Common name and synonyms | CAS number | %           |
|--|--------------------------|------------|-------------|
| Magnesium nitrate                        |                          | 10377-60-3 | 1.7 - 1.8   |
| 5-Chloro-2-methyl-4-isothiazolin-3-one   |                          | 26172-55-4 | 1.15 - 1.25 |
| Magnesium chloride                       |                          | 7786-30-3  | 1.0 - 1.2   |
| 2-Methyl-4-isothiazolin-3-one            |                          | 2682-20-4  | 0.35 - 0.45 |
| Cupric nitrate trihydrate                |                          | 3251-23-8  | 0.15 - 0.17 |
| Other components below reportable levels |                          |            | 95.5 - 96.2 |

#### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>   | 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.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.  |
| <b>Ingestion</b>  | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | 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.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | 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. |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.  |

#### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Not applicable, non-combustible. Use fire-extinguishing media appropriate for surrounding materials. |
| <b>Unsuitable extinguishing media</b>                                | Not applicable.  |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.  |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.        |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.  |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.           |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.  |

#### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe 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.   |
| <b>Methods and materials for containment and cleaning up</b>               | <p>This product is miscible in water.</p> <p>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. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | 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. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | 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

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

| Components                                   | Type | Value   | Form           |
|--|------|---------|----------------|
| Cupric nitrate trihydrate<br>(CAS 3251-23-8) | TWA  | 1 mg/m3 | Dust and mist. |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**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. 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. Face shield is recommended.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

#### 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** 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

|                       |                           |
|-----------------------|---------------------------|
| <b>Physical state</b> | Liquid.                   |
| <b>Form</b>           | Liquid.                   |
| <b>Color</b>          | Light blue to light green |

**Odor** Pungent.

**Odor threshold** Not available.

**pH** 2.0 - 4.0

**Melting point/freezing point** 26.6 °F (-3 °C)

**Initial boiling point and boiling range** 212 °F (100 °C)

**Flash point** Not available.

**Evaporation rate** < 1.0 (Butyl Acetate = 1)

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

### 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.

|  |                          |
|--|--------------------------|
| <b>Vapor pressure</b>                          | Not available.           |
| <b>Vapor density</b>                           | 0.62 (Air = 1) estimated |
| <b>Relative density</b>                        | Not available.           |
| <b>Solubility(ies)</b>                         |                          |
| <b>Solubility (water)</b>                      | Complete.                |
| <b>Partition coefficient (n-octanol/water)</b> | Not available.           |
| <b>Auto-ignition temperature</b>               | Not available.           |
| <b>Decomposition temperature</b>               | Not available.           |
| <b>Viscosity</b>                               | Not available.           |
| <b>Other information</b>                       |                          |
| <b>Density</b>                                 | 8.58 lbs/gal             |
| <b>Dynamic viscosity</b>                       | 3.00 mPa.s (25°C)        |
| <b>Percent volatile</b>                        | 95 - 96 % (Water)        |
| <b>Specific gravity</b>                        | 1.03                     |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Amines. Reducing agents. Mercaptans.  |
| <b>Hazardous decomposition products</b>   | Nitrogen oxides (NOx). Sulfur oxides. Hydrogen chloride.                                      |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause irritation to the respiratory system. Prolonged inhalation may be harmful. |
| <b>Skin contact</b> | Causes severe skin burns. May cause an allergic skin reaction.                       |
| <b>Eye contact</b>  | Causes serious eye damage.   |
| <b>Ingestion</b>    | Causes digestive tract burns.  |

|   |   |
|---|---|
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | 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 effects

|   |  |
|---|--|
| <b>Acute toxicity</b>   | May cause an allergic skin reaction.   |
| <b>Skin corrosion/irritation</b>                                      | Causes severe skin burns and eye damage.   |
| <b>Serious eye damage/eye irritation</b>                              | Causes serious eye damage.   |
| <b>Respiratory or skin sensitization</b>                              |  |
| <b>Respiratory sensitization</b>                                      | Not a respiratory sensitizer.  |
| <b>Skin sensitization</b>   | May cause an allergic skin reaction.   |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> |  |
| Not listed.   |  |
| <b>Reproductive toxicity</b>  | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Specific target organ toxicity - single exposure</b>               | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b>             | Not classified.  |

|                   |                                      |
|-------------------|--------------------------------------|
| Aspiration hazard | Not an aspiration hazard.            |
| Chronic effects   | Prolonged inhalation may be harmful. |

## 12. Ecological information

|                               |  |
|-------------------------------|--|
| Ecotoxicity                   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| 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. 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 / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |

## 14. Transport information

### DOT

|                              |  |
|------------------------------|--|
| UN number                    | UN3265   |
| UN proper shipping name      | CORROSIVE LIQUIDS, ACIDIC, ORGANIC, N.O.S.<br>(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE) |
| Transport hazard class(es)   |  |
| Class                        | 8  |
| Subsidiary risk              | -  |
| Packing group                | II   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling.                |

### DOT



## 15. Regulatory information

|  |  |
|--|--|
| US federal regulations   | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.<br>All components are on the U.S. EPA TSCA Inventory List.<br>This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and it's components are either listed on the U.S. Toxic Substance Control Act (TSCA) Inventory or they are exempt from listing. |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b> |  |
| 2-Methyl-4-isothiazolin-3-one (CAS 2682-20-4)                        | 1.0 % One-Time Export Notification only.   |
| 5-Chloro-2-methyl-4-isothiazolin-3-one (CAS 26172-55-4)              | 1.0 % One-Time Export Notification only.   |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                |  |
| Cupric nitrate trihydrate (CAS 3251-23-8)                            | Listed.  |

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

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

**Hazard categories**

Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

No

**SARA 313 (TRI reporting)**

| Chemical name     | CAS number | % by wt.  |
|-------------------|------------|-----------|
| Magnesium nitrate | 10377-60-3 | 1.7 - 1.8 |

**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 (SDWA)**

Not regulated.

**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**

Cupric nitrate trihydrate (CAS 3251-23-8)

Magnesium nitrate (CAS 10377-60-3)

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

Cupric nitrate trihydrate (CAS 3251-23-8)

Magnesium nitrate (CAS 10377-60-3)

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

Cupric nitrate trihydrate (CAS 3251-23-8)

Magnesium nitrate (CAS 10377-60-3)

**US. Rhode Island RTK**

Cupric nitrate trihydrate (CAS 3251-23-8)

Magnesium nitrate (CAS 10377-60-3)

**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                    |

|                             |   |                               |
|-----------------------------|---|-------------------------------|
| <b>Country(s) or region</b> | <b>Inventory name</b>                         | <b>On inventory (yes/no)*</b> |
| 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).

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| <b>16. Other information, including date of preparation or last revision</b> |
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|                             |   |
|-----------------------------|---|
| <b>Issue date</b>           | 05-31-2015  |
| <b>Version #</b>            | 01  |
| <b>HMIS® ratings</b>        | Health: 3<br>Flammability: 0<br>Physical hazard: 0<br>Personal protection: H  |
| <b>Disclaimer</b>           | Seller 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. |
| <b>Revision Information</b> | Product and Company Identification: Product and Company Identification<br>Composition / Information on Ingredients: Undisclosed Ingredient Statement<br>Physical & Chemical Properties: Multiple Properties<br>Transport Information: Hazreg Values Transportation<br>Regulatory Information: United States<br>GHS: Classification  |