

**Product Name:** Mineral Buddies Mineral Boss Mineral Purifier

**Date:** 5/22/2018

SECTION 1 **IDENTIFICATION**

**Company:** The Supply Company, Inc.  
6924 E. 38<sup>th</sup> Street  
Tulsa, OK 74145  
918-585-2863

**U.S. PERS Emergency Telephone:** 1-800-633-8253  
**Product Name:** Mineral Purifier  
**Synonyms:** N/A  
**Chemical Formula:** Ag  
**CAS Number:** 7440-22-4  
**Product Use:** Water Purifier

SECTION 2 **HAZARDS IDENTIFICATION**  
**EMERGENCY OVERVIEW**

**WARNING**



**Hazard Statement(s)**  
H410: Very toxic to aquatic life with long-lasting effects

**Precautionary Statement(s)**  
P273: Avoid release to the environment  
P391: Collect Spillage  
P501: 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.

SECTION 3 **COMPOSITION / INGREDIENTS INFORMATION**

<u>Component</u>	<u>CAS Number</u>	<u>Percent</u>
Nano Silver Powder	7440-22-4	2%

SECTION 4 **FIRST AID MEASURES**

**General:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye Contact:** Flush eyes with water as a precaution

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 **FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** No data available.

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and material for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 **STORAGE AND HANDLING**

**Precautions for Safe Handling:** Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Air sensitive. Handle and store under inert gas. Keep in a dry place.

SECTION 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control Parameters**

**Components with workplace control parameters**

Component	CAS-No.	Value	Control Parameters	Basis
Silver	7440-22-4	TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Argyria		
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Argyria		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	0.01 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		PEL	0.01 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

**Exposure Controls**

**Appropriate Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal Protective Equipment**

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection:** handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9

**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Powder
<b>Appearance:</b>	Copper, Silver, Opaque
<b>Odor:</b>	Not available
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	7-9
<b>Melting Point/Freezing Point:</b>	Melting point/range: 960°C (1,760°F) – lit.
<b>Initial Boiling Point &amp; Boiling Range:</b>	2,212°C (4,014°F) – lit.
<b>Flash Point:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Upper/Lower Flammability or Explosive Limits:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Relative Density:</b>	10.49 g/cm <sup>3</sup>
<b>Water Solubility:</b>	Not available
<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>Explosive Properties:</b>	Not available
<b>Oxidizing Properties:</b>	Not available

SECTION 10 **STABILITY AND REACTIVITY**

**Reactivity:** No data available.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid:** No data available.

**Incompatible Materials:** Oxygen, strong acids and strong bases.

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions. - Silver/silver oxides

SECTION 11 **TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** LD50 Oral – Rat – male - > 5,000 mg/kg

**Skin Corrosion/Irritation:** No data available.

**Serious Eye Damage/Irritation:** No data available.

**Respiratory or Skin Sensitization:** No data available.

**Germ Cell Mutagenicity:** No data available.

**Tumorigenic:** Tumors at site or application.

**Carcinogenicity:** Rat – Unreported

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.

**Reproductive Toxicity:** No data available.

**Specific Target Organ Toxicity (Repeated Exposure):** No data available.

**Specific Target Organ Toxicity (Single Exposure):** No data available

**Aspiration Hazard:** No data available.

SECTION 12 **ECOLOGICAL INFORMATION**

**Ecology - General:** Very toxic to aquatic life with long lasting effects.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available

**Other Adverse Effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 **DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Product:** Offer surplus and non -recyclable solutions to a licensed disposal company.

**Contaminated Packaging:** Dispose of as unused product.

SECTION 14	<b>TRANSPORTATION INFORMATION</b>
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Inner packaging's not over 5.0 kg (11 lbs.) net capacity each for solids, packed in a strong outer packaging:

**DOT:**    **UN Number:**                    Limited Quantity/ORM-D  
           **UN Proper Shipping Name:**    Limited Quantity/ORM-D  
           **Transport Hazard Class:**        Limited Quantity/ORM-D  
           **Packing Group:**                 Limited Quantity/ORM-D

**For International can package same as ORM-D but needs Class 9 Label.**

*Consumer commodity* (ORM-D) means a material that is packaged and distributed in a form intended or suitable for sale through retail sales agencies or instrumentalities for consumption by individuals for purposes of personal care or household use. Valid until December 31, 2020.

Inner packaging over 5.0 kg (11 lbs.) net capacity each for solids, packed in a strong outer packaging:

**DOT:**    **UN Number:**                    3077  
           **UN Proper Shipping Name:**    ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID,  
   N.O.S. (Silver)  
           **Transport Hazard Class:**        9  
           **Packing Group:**                 III  
           **Reportable Quantity:**         1 lbs.  
           **Poison Inhalation Hazard:**     No

**IMDG:** **UN Number:**                    3077  
           **UN Proper Shipping Name:**    ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID,  
   N.O.S. (Silver)  
           **Transport Hazard Class:**        9  
           **Packing Group:**                 III  
           **EMS-No:**                         F-A, S-F  
           **Marine Pollutant:**             Yes

**IATA:** **UN Number:**                    3077  
           **UN Proper Shipping Name:**    ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID,  
   N.O.S. (Silver)  
           **Transport Hazard Class:**        9  
           **Packing Group:**                 III

SECTION 15	<b>REGULATORY INFORMATION</b>
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**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

**SARA 311/312 Hazards:** No SARA Hazards

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**Massachusetts Right To Know Components**

	<b>CAS-No.</b>	<b>Revision Date</b>
Silver	7440-22-4	1993-04-24

**Pennsylvania Right to Know Components**

	<b>CAS-No.</b>	<b>Revision Date</b>
Silver	7440-22-4	1993-04-24

**New Jersey Right to Know Components**

	<b>CAS-No.</b>	<b>Revision Date</b>
Silver	7440-22-4	1993-04-24

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 <b><i>OTHER INFORMATION</i></b>
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**NFPA Rating:**    **Health Hazard:**      0  
                         **Fire Hazard:**              0  
                         **Reactivity Hazard:**      0

**HMIS Rating:**    **Health Hazard:**      0  
                         **Flammability Hazard:**    0  
                         **Physical Hazard:**        0

Date: 5/22/2018  
The Supply Company Inc.

**Product Name:** FROG® Jump Start  
**Revision Date:** October 1, 2016 Rev  
**Supersedes:** 2, 05/20/2015  
**Revision:** 3

**1. Identification**

**Product Identifier:** FROG® Jump Start  
**Other Means of Identification:** Sodium dichloroisocyanurate ; NaDCCA Dichlor; Sodium dichloro-s-triazinetrione; Chloroisocyanurate  
**Recommended Use:** Swimming pools, spas, hot tubs disinfectant; spa and hot tub shock  
**Supplier:** King Technology, Inc  
530 11<sup>th</sup> Ave S, Hopkins, MN 55343, USA  
Phone (952) 933-6118  
**EPA Registration Number:** 53735-12  
**Emergency Telephone:** Chemtrec (800) 424-9300

**2. Hazards Identification**

**GHS Classification:** Eye Damage: Category 1  
Skin Irritation: Category 2  
Oxidizing Solids: Category 2  
Specific Target Organ Toxicity (Single Exposure): Category 3  
Acute Toxicity (Inhalation): Category 4  
Acute Toxicity (Oral): Category 4  
Acute Toxicity (Dermal): Category 4

**GHS Label Elements:**

– **Signal Word:** DANGER

– **Pictograms:**



– **Hazard Statements:** Causes serious eye damage  
Causes skin irritation  
May intensify fire; oxidizer  
May cause respiratory irritation  
Harmful if inhaled  
Harmful if swallowed  
Harmful in contact with skin

– **Precautionary Statements:** Keep away from heat.  
Keep away from clothing or other combustible materials.  
Take any precaution to avoid mixing with combustibles.  
In case of fire: Use large amounts of water to extinguish.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing, and eye and face protection.  
Wash exposed areas thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
In in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Immediately call a poison center or doctor.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 Call a poison center or doctor if you feel unwell.  
 If swallowed: Call a poison center or doctor if you feel unwell.  
 Rinse mouth.  
 If on skin: Wash with plenty of water.  
 If skin irritation occurs: Get medical attention.  
 Call a poison center or doctor if you feel unwell.  
 Specific treatment (see First-aid Measures on this safety data sheet).  
 Take off contaminated clothing and wash it before reuse.  
 Store locked up in a well-ventilated place. Keep container tightly closed.  
 Dispose of contents and container in accordance with local/regional/national/international regulations.

**Unclassified Hazards:** None

**Percentage of Ingredients with Unknown Toxicity:** Zero

### 3. Composition / Information on Ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Sodium dichloroisocyanurate 2893-78-9	33.3	Not Established	Not Established
Citric acid 77-92-9	35.5	10 mg/m3 total dust	15 mg/m3 total dust
Inerts	31.2		

The specific chemical identities have been withheld as trade secrets.

### 4. First-aid Measures

**Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing the eye. Immediately call a poison control center or doctor for treatment advice.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If irritation persists, call a doctor for treatment advice.

**Inhalation:** Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if breathing is difficult, give oxygen. Call a poison control center or doctor for further treatment advice.

**Ingestion:** Call poison control center or doctor immediately for treatment advice. Drink plenty of water in small gulps. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Most Important Symptoms, Acute and Delayed:** Causes serious eye damage. Causes skin irritation. May cause respiratory irritation. Harmful if inhaled, swallowed, or in contact with skin.



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**Immediate Medical Attention Required:** If in eyes, immediately call a poison center or doctor. Otherwise, get medical attention if you feel unwell.

#### 5. Fire-fighting Measures

**Flash point:** Not applicable

**Auto-ignition temperature:** Not applicable

**Suitable Extinguishing Media:** Extinguish with large amounts of water.

**Unsuitable Extinguishing Media:** For safety reasons DO NOT use dry chemical extinguisher containing ammonia compounds, dry chemicals, carbon dioxide, halogenated agents.

**Special Protective Equipment and Precautions for Fire-fighters:** As in any fire, wear self-contained breathing apparatus with pressure demand (MSHA/NIOSH approved or equivalent) and full protection clothing. Use water spray to cool fire exposed containers.

**Specific Hazards Arising From the Chemical:** When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine, and carbon monoxide.

#### 6. Accidental Release Measures

**Personal Precautions:** For small spills in well ventilated areas wear respiratory protection and wear clothing, chemical resistant gloves, chemical resistant footwear, and chemical resistant headgear for overhead exposure.

For cleanup of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing covering the entire body to prevent personal contact with the material.

**Methods for Cleaning Up:** If spill material is still dry, do not put water directly on this product as a gas evolution may occur. Do not contaminate spill material with any organic materials, ammonia, ammonium salts, or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container.

CAUTION: Do not use floor sweeping compounds.

#### 7. Handling and Storage

**Handling:** Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**Storage:** Prevent formation of dust. Keep container tightly closed when not in use. Protect from atmospheric moisture and water. Store in a cool, dry, well-ventilated area from heat sources.

#### 8. Exposure Controls and Personal Protection

**Exposure Limits – DUST** LIMITS FOR AIR CONTAMINANTS (OSHA)  
Particulates not otherwise regulated – total dust – TWA 15 mg/m<sup>3</sup>

LIMITS FOR AIR CONTAMINANTS (OSHA)

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Particulates not otherwise regulated – Respirable fraction – TWA 5 mg/m<sup>3</sup>

LIMITS FOR AIR CONTAMINANTS (ACGIH)

Particulates (insoluble or poorly soluble) respirable particles – TWA 3 mg/m<sup>3</sup>

LIMITS FOR AIR CONTAMINANTS (ACGIH)

Particulates (insoluble or poorly soluble inhalable particles) – TWA 10 mg/m<sup>3</sup>

**Appropriate Engineering Controls:**

Set up ventilation to effectively remove and prevent buildup of any dust generated from the handling of this product.

**Personal protective equipment:**

– **Respiratory protection:**

If ventilation is not sufficient to effectively prevent build up of dust, appropriate NIOSH/OSHA respiratory protection must be provided.

– **Hand protection:**

Wear chemical resistant gloves, such as rubber, neoprene, or nitrile.

– **Eye protection:**

Use chemical safety glasses and face shield to avoid eye contact.

– **Skin and body protection:**

Prevent contact with skin & clothing by using protective garments.

**Hygiene measures:**

Flowing water source should be available. Avoid contact with skin, eyes, and clothing. Do not inhale dust. Remove soiled or soaked clothing immediately.

## 9. Physical and Chemical Properties

**Appearance:** White granular solid  
**Odor:** Chlorine like bleach  
**Odor threshold:** Not available  
**Melting point / range:** Not available  
**Boiling point / range:** Not available  
**Flash point:** Not available  
**Evaporation rate:** Not available  
**Flammability:** Not available  
**Vapor pressure:** Not available  
**Vapor density:** Granular (tap) 1.05 g/ml (pour) 0.958 g/ml  
**Solubility in water:** Not available  
**Specific gravity:** >1  
**pH:** 4.75 (25°C)  
**Flammability limits:** Not available  
**Partition coefficient:** Not available  
**Auto-ignition temperature:** Not available  
**Decomposition temperature:** Not available  
**Viscosity:** Not available

## 10. Stability and Reactivity

**Reactivity:** Not reactive under normal conditions.

**Chemical stability:** Stable under normal conditions.

**Incompatible materials:** Organic materials; combustible materials; ammonia; ammonium compounds; Alkali. Oxidizing agents; reducing agents; acids. Strong bases, alkali metals,

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metallic nitrates, oxides of sulfur and potassium tartrate.

**Conditions to avoid:** Avoid conditions that favor the formation of excessive dust. Avoid excessive heat and sources of ignition. Avoid conditions of moisture.

**Hazardous decomposition products:** Nitrogen. HCl gas. Chlorine gas. Isocyanic acid. Metal oxide. Nitrogen trichloride. Carbon oxides.

**Possibility of hazardous reactions:** Will not occur

#### 11. Toxicological Information

No information available.

#### 12. Ecological Information

**Adverse effects:** Toxic to fish and aquatic life forms. Do not dispose by drainage or into lakes, ponds or public water.

#### 13. Disposal Considerations

**Waste disposal:** Observe all federal, state, and local regulations. The responsibility for proper waste disposal is with the owner of the waste.

#### 14. Transportation Information

**US DOT:** Class: 5.1 – Oxidizing substances  
Packing Group: II  
Label: OXIDIZER (5.1)  
UN/NA number: UN2465  
Proper shipping name: Dichloroisocyanurate acid, dry, mixture

**Transport IMDG:** Class: 5.1 – Oxidizing substances  
Packing Group: II  
UN number: UN2465  
Proper shipping name: Dichloroisocyanurate acid, dry, mixture  
EmS: F-A+S-Q  
Label: OXIDIZING AGENT (5.1)  
Marine pollutant mark: Symbol “fish and tree”

**Transport ICAO/IATA:** Class: 5.1  
Packing Group: II  
UN number: UN2465  
Proper shipping name: Dichloroisocyanurate acid, dry, mixture  
Label: OXIDIZER (5.1)

#### 15. Regulatory Information

**US Federal Regulations:**

**EPA FIFRA Information:** This chemical is a pesticide product registered by the Environmental

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Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**DANGER**

Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through skin. May be fatal if inhaled. Do not breathe dust or vapors. Irritating to nose and throat. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, protective clothing and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the restroom. Remove and wash contaminated clothing before reuse.

–**Toxic Substances Control Act (TSCA):** Hazardous Component(s) subject to reporting on the TSCA List.

–**HMIS Classification:**  
Health = 3  
Flammability = 1  
Reactivity = 0  
PPE = F

–**NFPA Rating:**  
Health = 3  
Fire Hazard = 1  
Reactivity = 0

– **WHMIS hazard class:** Hazardous Components(s) subject to WHMIS Ingredient Disclosure

## 16. Other information

Date of preparation: October 1, 2016

**Details of change from previous version:**

- Updated Corporate Logo

The information in this Safety Data Sheet should be provided to all who use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this product. Additionally, if this Material Safety Data Sheet is more than three years old you should contact King Technology to make certain that this sheet is current.

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## Safety Data Sheet

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**Prepared by:** King Technology, Inc.  
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Phone (952) 933-6118

**End of safety data sheet**