# Safety Data Sheet

**Issue Date:** 01-Oct-2012 **Revision Date:** **22**-August-2019 **Version 1**

## 1. IDENTIFICATION

**Product Identifier**
**Product Name** Accelerator, Copper Cat

**Other means of identification**
**SDS #** AGOR060817

**Recommended use of the chemical and restrictions on use**
**Recommended Use** Cleaner & Stain Remover.

**Details of the supplier of the safety data sheet**
**Manufacturer Address**
Greenflow USA LLC.
1056 Hunley Sullivans Rd
Awendaw, SC 29429

**Emergency Telephone Number**
**Company Phone Number** (866) 308-2734
**Emergency Telephone (24 hr.)** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance:** White powder **Physical State:** Solid **Odor:** Odorless

**Classification**

| | |
|---|---|
| Skin Corrosive | Category 1B |
| Eye Damage | Category 1 |
| Metal Corrosive | Category 1 |

**Signal Word**
**Danger**

**Hazard Statements**
Alkaline. Causes burns. May cause permanent damage to eyes. Irritating to respiratory system. Can etch glass if not promptly removed.

**Environmental Hazard Statement(s)**

**Precautionary Statements - Prevention**
Avoid breathing dust
Do not get in eyes, on skin, or on clothing
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid release to the environment.
Do not eat, drink or smoke when using this product.

**Precautionary Statements - Response**
Immediately call a poison center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or physician if you feel unwell.

**Precautionary Statements - Storage**
Store locked up. Store in well ventilated place.

**Precautionary Statements - Disposal**
Dispose of contents/container in accordance with applicable local, regional, national, and/or international regulations.

**Other Hazards**
None know

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| Potassium Hydroxide | 1310-58-3 | 45% – 100% |
| | | |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. **

## 4. FIRST-AID MEASURES

**First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

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|---|---|
| **Skin Contact** | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse. |
| **Inhalation** | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. |
| **Ingestion** | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach contents doesn't get into the lungs. Get medical advice/attention if you feel unwell. |

**Most important symptoms and effects**

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|---|---|
| **Symptoms** | Causes skin irritation. Respiratory irritation. Upper airway irritation, may cause cough, redness of mouth and upper airways. Eye irritation: exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately. Gastrointestinal system effects: slightly toxic on ingestion. May be severely irritating to gastrointestinal tract possibly causing oral, esophageal redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death Prolonged exposure may cause chronic effects. |
| **Delayed Symptoms / Effects** | Repeated or prolonged contact may result in dermatitis |
| **Notes to Physician** | Treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |

## 5. FIRE-FIGHTING MEASURES

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|---|---|
| **Fire Hazard** | Negligible fire hazard. |
| **Extinguishing Media** | Use extinguishing medium as appropriate for surrounding fire. |
| **Fire Fighting** materials | Move container from fire area if it can be done without risk. Avoid inhalation of or combustible by-products. Stay upwind and keep out of low areas. |
| **Hazardous Combustion Products** | Oxides of carbon |
| **Sensitivity to Mechanical Impact** | Not sensitive |
| **Sensitivity to Static Discharge** | Not sensitive |
| **Lower Flammability Level (air)** | Not flammable |
| **Upper Flammability Level (air)** | Not flammable |

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

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|---|---|
| **Personal Precautions** | Use personal protection recommended in Section 8. Keep unprotected persons away. Keep people away from and upwind of spill/leak. Do not breathe mist or vapor. Do not touch damaged containers or spilled materials 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. |
| **Environmental Precautions** | This material is harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground. |

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| **Methods and material for Containment and cleaning up** | Shovel dry material into suitable container. Flush spill area with water, if appropriate. |

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Provide adequate ventilation.
Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Avoid prolonged exposure. Do not taste or swallow. When using do not eat, drink or smoke. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store near combustible materials. Protect from sunlight. Store locked up. Store away from incompatible materials (see Section 10 of this SDS).

**Incompatible Materials** Acids, Lime, Prolonged contact with aluminum, brass, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

**Regulatory Exposure Limits(s):** Listed below for the product components that have regulatory occupational exposure limits (OEL's) established.

| Chemical Name | OSHA Final PEL TWA | OSHA Final PEL STEL | OSHA Final PEL Ceiling |
|---|---|---|---|
| Particles Not Otherwise Regulated (PNOR) 00-00-001 | 15 mg/cubic m (Total) 5 mg/cubic m (Respirable) | | |

**OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit**

**NON-REGUALTORY EXPOSURE LIMIT(S):** Listed below for the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established.

| Component | CAS NUMBER | ACGIH TWA | ACGIH STEL | ACGIH CEILING | OSHA TWA (VACATED) | OSHA STEL (VACATED) | OSHA CEILING (VACATED) |
|---|---|---|---|---|---|---|---|
| Particulates Not Otherwise Specified (PNOS) | Not Assigned | 10 mg/cubic m (Inhalable) 3 mg/cubic m (Respirable) | | | | | |

**The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).**

The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemical, physical agents, and biological exposure indices.

**Recommended Exposure Limits (REL's) are non-regulatory occupational exposure limits that the manufacturer has established based on health effects data.**

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| **OXY REL 8 HR TWA** | Recommended Exposure Limit – 2 mg/cubic m recommended Time Weighted Average – 8 hours (internal Occupational Exposure Limit) (Inhalable Particulate) |

**Appropriate engineering controls**

**Engineering Controls** Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin and Body Protection** Wear protective clothing to minimize skin contact. Contaminated clothing should be removed and washed before reuse. Wear appropriate chemical resistant gloves.

**Respiratory Protection** A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | |
|---|---|---|
| **Physical State** | Solid | |
| **Appearance** | White solid | **Odor** |
| **Color** | White | **Odor Th** |

| **Property** | **Values** | **Remarks** |
|---|---|---|
| **pH** | Moderately basic in solution | |
| **Melting Point/Freezing Point** | -0.43 °C / 31.23 °F | |
| **Boiling Point/Boiling Range** | 110.4 °C / 230.72 °F | |
| **Flash Point** | Not determined | |
| **Evaporation Rate** | Not applicable | |
| **Flammability (Solid, Gas)** | Not applicable | |
| **Upper Flammability Limits** | Not applicable | |
| **Lower Flammability Limit** | Not applicable | |
| **Vapor Pressure** | Not applicable | |
| **Vapor Density** | Not determined | |
| **Relative Density/Specific Gravity** | 2.428 @ 19 (°C) (water=1) | |
| **Water Solubility** | 100% | |
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Auto-ignition Temperature** | Not determined | |
| **Decomposition Temperature** | Not determined | |
| **Kinematic Viscosity** | Not determined | |
| **Dynamic Viscosity** | Not determined | |
| **Explosive Properties** | Not determined | |
| **Hygroscopic** | Yes | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactivity under normal temperatures and pressures.

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

**Possibility of Hazardous Reactions**
Avoid contact with lime.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Conditions to Avoid**
None know

**Incompatible Materials**
Acids. Lime. Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

**Hazardous Decomposition Products**
Carbon oxides and other oxides

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Exposure to skin may cause redness, irritation.

**Inhalation** Inhalation of this material may cause upper airway irritation, cough, redness of mouth and upper airways.

**Ingestion** Do not ingest. Harmful if swallowed.

**Chronic Effects** Repeated or prolonged contact may result in dermatitis.

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| | | | |
| Proprietary Carbonate | 1.870 mg/kg (Rat) | >2000 mg/kg (Rabbit) | >4.96 mg/l (rat/4.5 hour) |

**Signs and Symptoms of Exposure**

Listed below:

**Inhalation (Breathing):** Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

**Skin:** Skin Irritation: Exposure to skin may cause redness or irritation.

**Eye:** Eye Irritation: Exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately.

**Ingestion (Swallowing):** Gastrointestinal Systems Effects: Slightly toxic on ingestion. May be irritating to gastrointestinal tract possibly causing oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death.

**Acute Toxicity**

This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction.

**GHS HEALTH HAZARDS**

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|---|---|
| **Acute toxicity - ORAL** | Category 4 - Harmful if swallowed. |
| **Acute toxicity – Dermal** | Not classified |
| **Acute toxicity – inhalation** | Category 4 – Harmful if inhaled |
| **Contact hazard - eye** | Category 2A – Causes serious eye irritation |
| **Contact hazard – skin** | Category 2 – Causes skin irritation |
| **Skin absorbent / dermal route?** | No |
| **Sensitization hazard** | Not classified as a dermal sensitizer according to GHS criteria. |
| **Carcinogenicity** | This product is not classified as a carcinogen by NTP, IARC or OSHS. |
| **Specific target organ toxicity (single exposure)** | Category 3 –Respiratory tract irritation |
| **Mutagenic data** | Not classified as a mutagen per GHS criteria. |
| **Developmental toxicity** | Not classified as a developmental or reproductive toxin per GHS criteria. |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity Data**

**Fish Toxicity**
LC50 Bluegill sunfish: 230 mg/l (96 hour)
LC50 Rainbow trout: 68 mg/l (96 hour)
LC50 Fathead minnow: 940 mg/l (24 hour)
LC50 Fathead minnow: 820 mg/l (48 hour)
LC50 Fathead minnow: <510 mg/l (96 hour)

**Invertebrate Toxicity**
EC50 Daphnia magna: 430 mg/l (48 hour)- hard water
EC50 Daphnia pulex: 200 mg/l (48 hour)- soft water

**Persistence/Degradability**
Believed not to persist in the environment.

**Bioaccumulation**
Believed not to bioaccumulate.

**Mobility**
Not determined

**Other Adverse Effects**
This material is harmful to aquatic life. May increase pH of waterways and adversely affect aquatic life.

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

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|---|---|
| **Disposal of Wastes** | Disposal should be in accordance with applicable regional, national and local laws and regulations. Collect and reclaim or dispose in sealed containers at licensed waste site. |
| **Contaminated Packaging** | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| **Hazardous waste code** | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| **Waste from residual / unused products** | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residuals. This material and its container must be disposed of in a safe manner (see Disposal instructions). |
| **Contaminated packaging** | Since emptied may retain product residual, 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

**U.S.A. DOT: Limited quantity item.**
**Hazard Class: 8**
**Hazard Number: UN-1814**
**Packaging group: PG II**
**Emergency Response Code: ERG#60**
**Labels Required: Limited quantity**
**Do not reuse container, dispose of according to your local, state and federal**

## 15. REGULATORY INFORMATION

**U.S. REGULATIONS**

**OSHA REGULATORY STATUS**
This material is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200).

**CERCLA SECTIONS 102a HAZARDOUS SUBSTANCES (40 CFR 302.4)**
Not regulated

**SARA EHS Chemical (40 CFR 355.30)**
Not regulated

**EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10)**
Acute Health Hazard

**EPCRA SECTION 313 (40 CFR 372.65)**
Not regulated

**DEPARTMENT OF HOMELAND SECURITY (DHS) – Chemical Facility Anti-Terrorism Standards (6 CFR 27)**
No components in this material are regulated under DHS

**OSHA PROCESS SAFETY (PSM) (40 CFR 1910.119)**
Not regulated

**FDA**
This material has Generally Recognized as safe (GRAS) status under specific FDA regulations.

**U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):** All components are listed or Exempt.

**TSCA 12(b):** This product is not subject to export notification.

**Canadian Chemical Inventory:** All components of this product are listed on either DSL or the NDSL.

**STATE REGULATIONS**

**California Proposition 65:**
This product and its ingredients are not listed, but it may contain impurities/trace elements know to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.

**CANADIAN REGULATIONS**
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**WHMIS – Classifications of Substances**
D2B – Poisonous and Infectious Material; Materials causing other toxic effects –Toxic material.

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | 2 | 0 | 0 | |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical Hazards** | **Personal Protection** |
| | 2 | 0 | 0 | |

**Issue Date:** 15-Nov.-2015
**Revision Date:**
**Revision Note:** New format

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**