

Material Safety Data Sheet Citra Bright Aluminum Brightener

Section 1. Chemical Product and Company Identification

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|------------------------------------|---|----------------------------|
| Product Name | Citra Bright Aluminum Brightener | |
| Product Number | NTA CBAB | |
| Manufacturer/ Supplier | NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088 | |
| Phone Number | (801) 253-1000 (Mon-Fri/ 8am- 5pm MT) | |
| D.O.T. Emergency Phone: | 1-800-633-8253 | |
| Date of Preparation | September 27, 2012 | Revision Number 1.0 |

Section 2. Hazards Identification

Emergency overview **This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

DANGER!

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the workstation location. S24/25- Avoid contact with skin and eyes.

Potential Acute Health Effects Corrosive to skin and eyes on contact, liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, Characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death.

Routes of Entry Eye Contact, Skin contact, Ingestion, INHALATION.

Eyes May cause irritation and burning.

Skin Acute exposure can cause burns and be destructive to the skin

Inhalation May severely burn the respiratory tract

Ingestion May cause irritation if swallowed

Medical conditions aggravated by exposure: Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Potential Chronic Health None

Carcinogenic Effects None

Target Organs

Environmental Effects Not available

Section 3. Composition and Information on Ingredients

| Name | CAS # | % by Weight | Exposure Limits | LC ₅₀ /LD ₅₀ |
|-------------|---------|-------------|-----------------|------------------------------------|
| Citric Acid | 77-92-9 | 20% | | |

Section 4. First Aid Measures

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| Eye Contact | SEEK IMMEDIATE MEDICAL ATTENTION. Preferably an optometrist. IMMEDIATELY flush eyes with running water for at least 15 to 20 minutes, keeping eyelids open. Repeat once or twice at 15 minute intervals. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. To alleviate pain until physician arrives 2 drops of 0.5% "Pontocaine" hydrochloride solution into eye. No oil or oily ointments should be used unless directed by a doctor. |
| Skin Contact | Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. See a physician. |
| Inhalation | Immediately remove patient from contaminated atmosphere. Administer oxygen as soon as possible. Call a physician. If not breathing give artificial respiration. |
| Ingestion | Call a poison control center IMMEDIATELY for treatment advice. DO NOT induce vomiting! Have conscious person sip a glass of water as soon as possible followed by milk or 2oz of milk of magnesia to drink to soothe the burning effect. See a physician immediately. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. |
| General Advice | In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible). |
| Notes to Physician | Not available |

Section 5. Fire Fighting Measures

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| Flammability | Non flammable |
| Fire Fighting Media and instructions | water fog, foam, carbon dioxide |
| Products of Combustion | Not available |
| Special Remarks on Fire Hazards | Product is non-flammable; however, it can react with metals to produce hydrogen, a flammable gas. The amount of vapor released from ruptured containers will be increased by heat. In such case full protective equipment may be needed |
| Special Remarks on Explosion Hazards | Product is non-flammable, However, it can react with metals to produce hydrogen, a flammable gas. The amount of vapor released from ruptured containers will be increased by heat. In such case full protective equipment may be needed |
| Sensitivity to Mechanical Impact | Not available |
| Sensitivity to Static Discharge | Not available |
| Protection of Fire Fighters | See special remarks on Fire Hazards |

Section 6. Accidental Release Measures

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| Personal Precautions | Face shield. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Do not breath vapor, get in eyes, on skin or on clothing. Keep personel up wind of spill and do not enter area unless equipped with full protective equipment and self contained breathing apparatus. |
| Methods for Containment | Corrosive liquid. Avoid to runoff to sewers and waterways. Water protective clothing. Absorb with inert material. Contact your local Emergency planning commission for further instructions. Absorb with an in inert material and put the spilled material in an appropriate waste disposal. |
| Environmental Precautions | See Methods for Containment |
| Methods for Clean Up | See Methods for Containment |

Section 7. Handling and Storage

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| Precautions | Keep locked up. Keep container dry. DO NOT INGEST. Do not breath the gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water. |
| Incompatibility | Strong alkalis, most metal, bleach. Alkalis incompatible with chlorinated solvents. Incompatible with alcohols and wide variety of metals |
| Storage | Corrosive materials should be stored in a separate safety storage cabinet or room. Not for use or storage in or around the home. Keep out of reach of children. For Institutional and Commercial Use. Store in a well ventilated building or shed. |

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work station location. S24/25- Avoid contact with skin and eyes.

Section 8. Exposure Controls/Personal Protection

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| Engineering Controls | |
| Personal Protection | Good general ventilation should be sufficient to control airborne levels. |
| Eyes | Splash goggles and Face Shield. |
| Body | Rubber boots. In considerable exposure a full rubber suit should be used. Eye wash fountain and safety shower is highly recommended. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. |
| Respiratory | Wear U.S bureau of mines approved respirator |
| Hands | Impervious gloves |
| Protective Clothing (Pictograms) | |



Exposure Limits

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

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| Physical State and Appearance | Red Liquid |
| Molecular Weight | N/A |
| Ph | 0.5 to 1.0 |
| Boiling/Condensation Point | Approx. 150 F |
| Melting/Freezing Point | N/A |
| Critical Temperature | N/A |
| Instability Temperature | N/A |
| Specific Gravity | (H2O = 1): 1.09 |
| Vapor Pressure | (Non-Aerosols)(mm Hg and Temperature): N/A |
| Vapor Density | (Air = 1) |
| Volatility | N/A |
| VOC | N/A |
| Evaporation Rate | (H2O = 1): N/A |
| Dispersion Properties | N/A |
| Solubility | Complete in water |
| The Product is: | Acidic Liquid |
| Auto-ignition Temperature | N/A |
| Flash Points | N/A |
| Flammable Limits | Not applicable |
| Fire Hazards in Presence Of Various Substances | Product is non-Flammable, however, it can react with metals to produce hydrogen, a flammable gas |
| Explosion Hazards in Presence of Various Substances | Product is non-Flammable, however, it can react with metals to produce hydrogen, a flammable gas |
| Odor | Acidic |
| Color | Red |

Section 10. Stability and Reactivity Data

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| Stability | The product is stable. |
| Incompatibility with Various Substance | Alkali materials and oxidizing agent. Avoid vapors from contact with metals |
| Hazardous Decomposition Products | None |

Section 11. Toxicological Information

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| Routes of Entry | Skin Contact. Ingestion. Eye Contact. |
| Toxicity to Animals | |
| Acute Effects on Humans | |
| Eyes | May cause irritation and burning. |
| Skin | Acute exposure can cause burns and be destructive to the skin |
| Inhalation | May severely burn the respiratory tract |
| Ingestion | May cause irritation if swallowed |
| Chronic Effects on Humans | Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death. |
| Special Remarks on Toxicity to Animals | No additional remark |
| Special Remarks on Chronic Effects on Humans | No additional remark |

Section 12. Ecological Information

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| Ecotoxicity | Not available |
| BOD5 and COD | Not available |
| Products of Biodegradation | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| Toxicity of the Products of Biodegradation | Not available |
| Special Remarks on the Products of Biodegradation | Not available |

Section 13. Disposal Considerations

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| Waste Information | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
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Waste Stream Neutralize with lime and flush with water. Run off to sewer may create a hazard in the case of large spills; notify authorities.

Section 14. Transport Information

DOT (U.S.A.) (Pictograms)

TDG Classification

PIN UN, Proper Shipping Name, PG Shipping Name: Not regulated

Maritime Transportation Not available

Special Provisions for Transport Not available

Section 15. Regulatory Information and Pictograms

Regulatory Lists No products were found

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications **HCS (U.S.A.)** HCS Class: Corrosive Liquid. HCS Class: Toxic.

USA Regulatory Lists This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL)
SARA 302 Extremely Hazardous Substances - Not listed
SARA 311 - 1. Immediate (acute) health hazard
SARA 313 Toxic Chemical List – Not listed

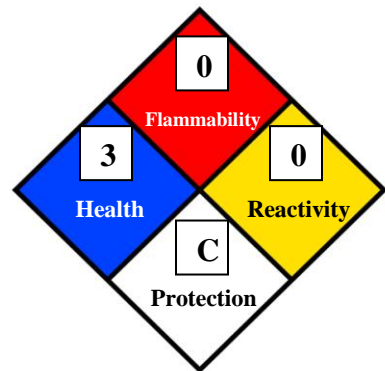
DSD (EEC) R22- Harmful if swallowed.
R35- Causes severe burns.

International Regulations Lists No Products were found.

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



WHMIS (Classification) WHMIS CLASS E: Corrosive Liquid. WHMIS CLASS D-1: Material causing immediate and serious toxic effects.

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Expiry Date 3 (Three Years) from the date of preparation indicated in Section 1.

Validated by

Verified by

Printed

Information Contact

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on

NuTech Specialties, Inc.