



Date: 08/18/2015

Revision: 00

Safety Data Sheet Citrus Stain Eliminator

Section 1: Identification

Product Identifier: Citrus Stain Eliminator
Other Means of Identification: 2-Hydroxy-1, 2,3 Propanetricarboxylic Acid
Recommended Use: Removal of metallic stains in swimming pools.
Manufacturer's Name: Spec Chem Direct, Inc.
Corporate Address: 6506 S 209th St., Kent, WA, 98032
Manufacturer's Telephone: (253) 277-3143 (Monday-Friday, 8AM-5PM PT)
Emergency Phone Number: (253) 277-3143 (Monday-Friday, 8AM-5PM PT)

Section 2: Hazard(s) Identification

Hazard Classification: Eye Irritation
Signal Word: WARNING
Hazard statement(s): Causes serious eye irritation
Pictograms:



Precautionary Statement(s): Wash exposed skin thoroughly after handling. Wear eye protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Hazards Not Otherwise Classified: N/A

Ingredient(s) With Unknown Toxicity: 0% of the mixture consists of ingredient(s) with unknown acute toxicity.

Section 3: Composition/Information on Ingredients

Ingredients	% by weight	CAS #
Citric Acid	> 99.8%	77-92-9

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Impurities and Stabilizing Additives, Which Are Themselves Classified and Which Contribute to the Classification of the Chemical: None

The Chemical Name and Concentration of All Ingredients Which Are Classified As Health Hazards and Are Present Above Their Cut-Off/Concentration Limits or Present a Health Risk Below the Cut-Off/Concentration Limits: None

Chemicals Where a Trade Secret Is Claimed: None

Section 4: First-Aid Measures

Inhalation: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.

Skin: In case of contact, immediately wash with plenty water. Repeat washing. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use. If irritation persists consult a health care professional.

Eyes: Remove contact lenses (if applicable), hold eyelids apart and immediately flush eyes with a steady, gentle stream of water for at least 15 minutes. Protect unharmed eye. If eye irritation persists, consult a physician.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most Important Symptoms or Effects, and Any Symptoms That Are Acute or Delayed: N/A

Recommendations for Immediate Medical Care and Special Treatment Needed, When Necessary: N/A

Section 5: Fire-Fighting Measures

Suitable / Unsuitable Extinguishing Equipment: Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.

Specific Hazards: None known.

Special Protective Equipment or Precautions for Fire Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Section 6: Accidental Release Measures

Personal Precautions: Refer to Section 8: Exposure Controls/Personal Protection and Section 7: Handling and Storage.

Emergency Procedures: Avoid dust formation. Avoid breathing dust.

Methods and Materials for Containment and Cleanup: Sweep up material for disposal into containers. Minimize generation of dust. Neutralize with soda ash or sodium bicarbonate. Flush area with water to remove trace material. Avoid discharge to sewers and surface water. Dispose of per guidelines under Section 13: Disposal Considerations.

Section 7: Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing. Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from strong bases and strong oxidizers.

Section 8: Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs): Not applicable.

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs): Not applicable.

Any Other Exposure Limit Used or Recommended: Not applicable.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Appropriate Engineering Controls: Use dilution ventilation to control dust level.

Individual Protection Measures (Personal Protective Equipment – PPE): Chemical splash goggles. Long sleeve shirts and pants are recommended to avoid skin contact. Chemical resistant gloves. A dust respirator is recommended. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Section 9: Physical and Chemical Properties

Appearance: Solid, white, powder

Odor: No odor

Odor threshold: No data available.

pH: 1.7 10% solution

Melting Point/Freezing Point: 153 °C.

Initial Boiling Point and Boiling Range: 175 °C

Flash Point: No data available.

Evaporation Rate: No data available.

Flammability (Solid, Gas): No data available.

Upper/Lower Flammability or Explosive Limits: No data available.

Vapor Pressure: No data available.

Vapor Density: No data available.

Relative Density: 1.665

Solubility(ies): 59.2% in water at 20 °C,

Partition Coefficient (n-octanol/water): -1.72 (20 °C)

Auto-ignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

NOTE: *These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.*

Section 10: Stability and Reactivity

Reactivity: Stable under recommended storage conditions.

Chemical Stability: Material is stable under normal temperatures.

Possibility of Hazardous Reactions: Hazardous Polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures.

Incompatible Materials: Strong acids, strong bases and strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Section 11: Toxicological Information

Likely Routes of Exposure (Inhalation, Ingestion, Skin and Eye Contact): Inhalation, ingestion, skin and eye contact.

Delayed, Immediate, or Chronic Effects from Short- and Long-Term Exposure:

Inhalation:

Short term exposure: Dust may irritate nose, throat, and mucous membranes.

Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short term exposure: Slight irritation.

Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: Causes serious eye irritation.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Nausea.

Long Term exposure: Erosion of tooth enamel is possible.

Numerical Measures of Toxicity:

Acute Oral LD₅₀: Mouse - 5400 mg/kg; Rat - 3000 mg/kg.

Dermal LD₅₀: Rabbit - 500 mg/24H Mild.

Inhalation LC₅₀: Not available.

Eye: Rabbit - 750 ug/24H Severe.

Description of the symptoms: No data available.

Carcinogenicity (NTP, IARC, or OSHA): This product is not known or reported to be carcinogenic by any reference source including NTP, IARC, or OSHA.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity:

Toxicity to Fish: *Leuciscus Idus* (Golden Orfe) LC₅₀ (96H) > 440 - 760 mg/l

Toxicity to daphnia and other aquatic invertebrates: *Daphnia Magna* (Water Flea) EC₅₀ (72H) ca. 120 mg/l

Toxicity to Algae: *Scenedesmus Quadricauda* (Green Algae) EC₀ (7D) 640 mg/l

Toxicity to Bacteria: *Pseudomonas Putida* EC₅₀ > 10,000 mg/l

Persistence and Degradability: Readily biodegradable.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available.

Other Adverse Effects: None known.

Section 13: Disposal Considerations (non-mandatory)

Appropriate Disposal Containers: Dispose unused product in original container. Do not re-use empty containers.

Recommended Appropriate Disposal Methods: Dispose in a safe manner in accordance with local/national regulations.

Physical and Chemical Properties That May Affect Disposal Activities: Avoid release to the environment.

Special Precautions for Landfills or Incineration Activities: Avoid release to the environment.

Do not dispose of into sewer or waterways.

If this product as supplied becomes a waste, it does meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

To minimize exposure, refer to Section 8: Exposure Controls/Personal Protection

Section 14: Transport Information (non-mandatory)

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es): Not regulated.

Packing Group Number, if Applicable: Not regulated.

Environmental Hazards (e.g., Marine pollutant (Yes/No)): Unknown.

Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Unknown.

Special Precautions Which a User Needs to Be Aware of, or Needs to Comply With, in Connection With Transport or Conveyance Either Within or Outside Their Premises: Unknown.

Section 15: Regulatory Information (non-mandatory)

National and/or Regional Regulatory Information of the Chemical or Mixtures (Including Any OSHA, Department of Transportation, Environmental Protection Agency, or Consumer Product Safety Commission Regulations):

TSCA: Listed on the TSCA inventory.

CERCLA Reportable Quantity (RQ): None of the ingredients is listed.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

EPA: Unknown.

SARA Section 302: Does not have an RQ or TPQ.

SARA Section 311/312: Acute.

SARA Section 313: No chemicals are reportable under Section 313.

California Proposition 65: None of the chemicals in this product are listed.

Section 16: Other Information

REVISION INFORMATION:

SDS sections(s) changed since last revision of document:

00 08/18/2015 Original SDS Document

DISCLAIMER:

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE

ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.