

# DWR® Brightener & Neutralizer

## Safety Data Sheet

### Section 1. Identification

**Product Name:** DWR® Brightener & Neutralizer

**Product Code:**

**Recommended use:** Neutralization of caustic residue

**Restrictions on use:** Use only as directed

**Manufacturer Name:** Chemique, Inc.  
**Address:** 315 N. Washington Avenue  
Moorestown, NJ 08057  
**Telephone number:** (856) 235-4161

**Emergency phone number:** (800) 535-5053 (Infotrac)

**Date of Preparation:** February 14, 2014

### Section 2. Hazard(s) Identification

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

**Classification:**

Physical	Health
Combustible dust	Eye Irritation Category 2A

**Warning!**



**Hazard statement(s)**

Causes serious eye irritation.  
May form combustible dust concentrations in air.

**Precautionary statement(s)**

Wash thoroughly after handling.  
Wear eye protection and face 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 attention.

### Section 3. Composition / Information on Ingredients

Chemical name	CAS No.	Concentration
Citric Acid	77-92-9	90-100%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

#### Section 4. First-Aid Measures

**Inhalation:** Remove to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

**Skin contact:** Wash skin with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

**Eye contact:** Immediately flush eyes with water for at least 15 minutes while lifting the upper and lower lids. Get medical attention if irritation persists.

**Ingestion:** If conscious, give 1 glass of water to dilute. DO NOT induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention.

**Most important symptoms/effects, acute and delayed:** Causes eye irritation. May cause mechanical skin irritation. Inhalation of dust may cause mucous membranes and upper respiratory tract irritation. Swallowing large amounts may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Indication of immediate medical attention and special treatment, if necessary:** None needed under normal conditions of use. If large amounts are swallowed, get medical attention.

#### Section 5. Fire-Fighting Measures

**Suitable (and unsuitable) extinguishing media:** Use any media that is suitable for the surrounding fire.

**Specific hazards arising from the chemical:** Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposure containers with water.

#### Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Wear appropriate protective clothing and equipment to prevent eye and skin contact. Avoid dust formation.

**Environmental precautions:** Avoid release to the environment. Report spill as required by local and federal regulations.

**Methods and materials for containment and cleaning up:** Ventilate area. Use methods to collect spill that does not allow accumulation of dust such as wet wiping or vacuuming. Place into a container for use or disposal. Avoid dispersal of dust in the air. Do not clean surfaces with compressed air.

#### Section 7. Handling and Storage

**Precautions for safe handling:** Avoid eye and skin contact. Avoid breathing dusts. Use with adequate ventilation. Remove and launder contaminated clothing before re-use. Wash thoroughly after handling. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Empty containers retain product residues. Follow all SDS precautions in handling empty containers.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed. Store in a cool, well ventilated area away from alkaline materials and other incompatible materials.

<b>Section 8. Exposure Controls / Personal Protection</b>
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**Exposure guidelines:**

Citric Acid (as particles not otherwise classified)	5 mg/m3 TWA OSHA PEL (respirable fraction) 15 mg/m3 TWA OSHA PEL (total dust)
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**Appropriate engineering controls:** Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions.

**Personal Protective Equipment:**

**Respiratory protection:** None needed under normal conditions of use. If exposure limits are exceeded, a NIOSH approved dust/mist or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**Skin protection:** Rubber or other impervious gloves are recommended to prevent skin contact.

**Eye protection:** Chemical safety goggles should be worn if contact is possible.

**Other:** For operations where contact can occur, an eye wash facility should be available.

<b>Section 9. Physical and Chemical Properties</b>
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**Appearance:** White granular powder

**Odor:** No odor.

<b>Odor threshold:</b> Not available	<b>pH:</b> Not available
<b>Melting point/freezing point:</b> 212°F	<b>Boiling point:</b> Not applicable
<b>Flash point:</b> Not applicable	<b>Evaporation rate:</b> Not applicable
<b>Flammability (solid, gas):</b> Dust may be explosive in high concentrations.	
<b>Flammable limits: LEL:</b> Not applicable	<b>UEL:</b> Not applicable
<b>Vapor pressure:</b> Not applicable	<b>Vapor density:</b> Not applicable
<b>Relative density:</b> 1.542	<b>Solubility(ies):</b> Completely soluble in water
<b>Partition coefficient: n-octanol/water:</b> Not available	<b>Auto-ignition temperature:</b> Not applicable
<b>Decomposition temperature:</b> Not available	<b>VOC:</b> 0 g/L

<b>Section 10. Stability and Reactivity</b>
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**Reactivity:** Not reactive under normal conditions of use.

**Chemical stability:** Stable.

**Possibility of hazardous reactions:** Contact with copper, zinc and aluminum may release flammable hydrogen gas.

**Conditions to avoid:** None known. .

**Incompatible materials:** Avoid potassium tartrate, alkali, alkaline earth carbonates, bicarbonates, acetates and sulfides.

**Hazardous decomposition products:** Thermal decomposition may yield carbon dioxide and carbon monoxide.

### Section 11. Toxicological Information

**Acute effects of exposure:**

**Inhalation:** Inhalation of dust may cause mucous membrane and upper tract respiratory irritation with coughing, sneezing and shortness of breath.

**Skin Contact:** Prolonged skin contact may cause irritation.

**Eye Contact:** May cause irritation with redness, tearing and burring.

**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea. .

**Chronic Effects:** Prolonged or repeated contact may cause erosion of tooth enamel.

**Sensitization:** Citric acid is not sensitizing to animals or humans.

**Germ Cell Mutagenicity:** Citric acid has not shown to cause germ cell mutagenicity.

**Reproductive Toxicity:** Citric acid has not been shown to cause reproductive or developmental toxicity.

**Carcinogenicity:** None of the components are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA.

**Acute toxicity values:**

Citric Acid: Oral rat LD50 5.4 g/kg; Dermal rabbit LD50 > 2000 mg/kg

### Section 12. Ecological Information

**Ecotoxicity values:**

Citric Acid: 48 hr LC50 *Leuciscus idus melanotus* 440 mg/L; 24 hr LC50 *daphnia magna* 1535 mg/L

**Persistence and degradability:** Citric acid is readily biodegradable.

**Bioaccumulative potential:** Citric acid has a calculated bioconcentration factor of 3.2.

**Mobility in soil:** Citric acid is expected to be highly mobile in soil.

**Other adverse effects:** None known.

### Section 13. Disposal Considerations

Dispose in accordance with all local, state and federal regulations.

### Section 14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			None
TDG		Not Regulated			None

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known

<b>Section 15. Regulatory Information</b>
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**Safety, health, and environmental regulations specific for the product in question.**

**CERCLA Hazardous Substances (Section 103)/RQ:** This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Acute health

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:  
None

**California Proposition 65:** This product the following chemicals known to the State of California to cause cancer or reproductive toxicity: None

**EPA TSCA Inventory:** All of the components of this product are listed on the TSCA inventory.

**CANADA:**

**Canadian CEPA:** All the components of this product are listed on the Canadian DSL.

**Canadian WHMIS Classification:** Class D - Division 2B (Toxic material causing other chronic effects)  
This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

<b>Section 16. Other Information</b>
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**SDS Revision History:** New SDS

**Date of preparation:** February 14, 2014

**Date of last revision:** New SDS