

# SAFETY DATA SHEET

## Re-Nu Tile & Grout Cleaner

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Printed: 11/12/2020

Revision: 11/12/2020

Supersedes Revision: 06/18/2018

### 1. Product and Company Identification

**Product Code:** 405400GAL  
**Product Name:** Re-Nu Tile & Grout Cleaner  
**Company Name:** Empire Cleaning Supply  
11020 Bloomfield Ave  
Santa Fe Springs, CA 90670  
**Phone Number:** (323)248-7750

**Web site address:** <http://empirecleaningsupply.com/>  
**Emergency Contact:** Chem Trec (800)424-9300

**Recommended Use:** Tile & Grout Cleaner  
**Intended Use:** For sale to, use and storage by service persons only.

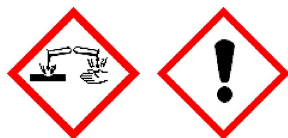
### 2. Hazards Identification

**Skin Corrosion/Irritation, Category 1B**

**Specific Target Organ Toxicity (single exposure), Category 3**

**Serious Eye Damage/Eye Irritation, Category 1**

**Acute Toxicity: Inhalation, Category 4**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H314 - Causes severe skin burns and eye damage.  
H335 - May cause respiratory irritation.  
H318 - Causes serious eye damage.  
H332 - Harmful if inhaled.

**GHS Precaution Phrases:** P260 - Do not breathe dust, fumes, mist, vapors, spray.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P261 - Avoid breathing fumes and spray mist.  
P271 - Use only outdoors or in a well-ventilated area.

**GHS Response Phrases:** P303+361+353 - If on skin (or in hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P363 - Wash contaminated clothing before reuse.  
P305+351+338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+330+331 - If swallowed: Rinse mouth. Do NOT induce vomiting.  
P315 - Get immediate medical advice/attention.  
P304+340 - If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**GHS Storage and Disposal Phrases:** P405 - Store locked up.  
P501 - Dispose of contents and container according to the local, city, state and federal regulations.  
P411+235 - Store in cool dry place at room temperature away from direct sunlight.

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**Inhalation:** Causes respiratory tract irritation. May be harmful if inhaled.  
**Skin Contact:** Causes skin irritation. May be harmful if absorbed through the skin.  
**Eye Contact:** Causes eye irritation. May cause chemical conjunctivitis.  
**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
7647-01-0	Hydrochloric acid	Proprietary	
7664-38-2	Phosphoric acid	Proprietary	
9002-92-0	Ethoxylated lauryl alcohol	Proprietary	

### 4. First Aid Measures

#### Emergency and First Aid

##### Procedures:

**In Case of Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

**In Case of Ingestion:** Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

**Note to Physician:** Treat symptomatically and supportively.

### 5. Fire Fighting Measures

**Flash Pt:** NE Method Used: Estimate

**Explosive Limits:** LEL: N/A UEL: N/A

**Autoignition Pt:** NE

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

**Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Flammable Properties and Hazards:** No data available.

**Hazardous Combustion** No data available.

**Products:**

### 6. Accidental Release Measures

**Steps To Be Taken In Case** Use proper personal protective equipment as indicated in Section 8.

**Material Is Released Or Spilled:** Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

## 7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

**Precautions To Be Taken in Storing:** Store in a cool, dry, well-ventilated area away from incompatible substances.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7647-01-0	Hydrochloric acid	CEIL: 5 ppm	CEIL: 2 ppm)	No data.
7664-38-2	Phosphoric acid	PEL: 1 mg/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	No data.
9002-92-0	Ethoxylated lauryl alcohol	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Eye Protection:** Wear chemical splash goggles.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [X] Liquid [ ] Solid

**Appearance and Odor:** Colorless liquid with acrid odor.

**pH:** 0.5 - 2.0

**Melting Point:** NE

**Boiling Point:** >= 212.00 F

**Flash Pt:** NE Method Used: Estimate

**Evaporation Rate:** NE

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: N/A UEL: N/A

**Vapor Pressure (vs. Air or mm Hg):** NE

**Vapor Density (vs. Air = 1):** > 1

**Specific Gravity (Water = 1):** 1.120

**Density:** 9.34 LB/GA

**Bulk density:** NE

**Solubility in Water:** 100%

**Saturated Vapor Concentration:** NE

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Octanol/Water Partition Coefficient: No data.  
VOC / Volume: 0.0000 G/L  
Autoignition Pt: NE  
Decomposition Temperature: NE  
Viscosity: NP  
Particle Size: NE  
Heat Value: NE  
Corrosion Rate: NE

### 10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]  
Conditions To Avoid - Instability: Incompatible materials.  
Incompatibility - Materials To Avoid: Strong oxidizers, ammonia, chlorine, strong alkali materials, aluminum.  
Hazardous Decomposition or Byproducts: Carbon monoxide, Carbon dioxide.  
Possibility of Hazardous Reactions: Will occur [ ] Will not occur [ X ]  
Conditions To Avoid - Hazardous Reactions: None.

### 11. Toxicological Information

Toxicological Information: CAS# 7664-38-2: Acute toxicity, LD50, Oral, Rat, 1530. MG/KG. Result: [Beha (missing text!)] [Chan (missing text!)] [in (missing text!)] [psyc (missing text!)] [test (missing text!)] ; BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970  
CAS# 9002-92-0: Acute toxicity, LD50, Oral, Rat, 8600. MG/KG. Result: Kidney, Ureter, Bladder:Other changes in urine composition. Blood:Changes in serum composition (e.g. Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: True cholinesterase. ; Soap, Perfumery & Cosmetics., Vol/p/yr: 38,47, 1965  
Carcinogenicity/Other Information: CAS# 7647-01-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.  
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

### 12. Ecological Information

General Ecological Information: CAS# 7647-01-0: 100% mortality or 0% survival of organism., Brook Trout (Salvelinus fontinalis), 10000. UG/L, Mortality, Water temperature: 11.70 C - 15.60 C C. Result: No observed effect. ; Toxicity Experiments with Fish in Reference to Trade Waste Pollution. I. The Problem of Water Pollution, Belding, D.L., 1927  
LC50, Western Mosquitofish (Gambusia affinis), adult(s), 282000. UG/L, 96 H, Mortality, Water temperature: 21.00 C - 23.00 C C, pH: 8.20. Result: Morphological changes. ; Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957  
LC50, Western Mosquitofish (Gambusia affinis), adult(s), 282000. UG/L, 24 H, Mortality, Water temperature: 21.00 C - 23.00 C C, pH: 8.20. Result: No observed effect. ; Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957  
CAS# 7664-38-2: Not reported., Rainbow Trout (Oncorhynchus mykiss), fingerling, 5.190 %, 27 W, Growth, Water temperature: 16.00 C - 20.00 C C. Result: Morphological changes. ; Effect of Various Types of Phosphates on Zinc Availability to Rainbow Trout,

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Satoh, S., N. Porn-Ngam, T. Takeuchi, and T. Watanabe, 1993  
CAS# 9002-92-0: LC50, Atlantic Salmon (*Salmo salar*), Parr, 3500. UG/L, 24 H, Mortality, Water temperature: 10.00 C - 11.00 C C, Hardness: Soft. Result: Morphological changes. ; Lethal Response by Atlantic Salmon Parr to Some Polyoxyethylated Cationic and Nonionic Surfactants, Wildish, D.J., 1974

**13. Disposal Considerations**

**Waste Disposal Method:** Dispose of contents and container according to the local, city, state and federal regulations.

**14. Transport Information**

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Quart and one gallon:  
Limited Quantity.  
Five Gallons or Higher: NA1760, Compounds, Cleaning Liquid, (Contains Hydrochloric Acid), 8, II.

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** NA1760 **Packing Group:** II



**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:** NA1760, Compounds, Cleaning Liquid, (Contains Hydrochloric Acid), 8, II.

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** NA1760, Compounds, Cleaning Liquid, (Contains Hydrochloric Acid), 8, II.

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** NA1760, Compounds, Cleaning Liquid, (Contains Hydrochloric Acid), 8, II.

**15. Regulatory Information**

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7647-01-0	Hydrochloric acid	Yes 500 LB	Yes 5000 LB	Yes
7664-38-2	Phosphoric acid	No	Yes 5000 LB	No
9002-92-0	Ethoxylated lauryl alcohol	No	No	No

**This material meets the EPA**  Yes  No Acute (immediate) Health Hazard  
**'Hazard Categories' defined**  Yes  No Chronic (delayed) Health Hazard  
**for SARA Title III Sections**  Yes  No Fire Hazard  
**311/312 as indicated:**  Yes  No Sudden Release of Pressure Hazard  
 Yes  No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7647-01-0	Hydrochloric acid	CA PROP.65: No; CA TAC, Title 8: TAC, Title 8
7664-38-2	Phosphoric acid	CA PROP.65: No; CA TAC, Title 8: TAC, Title 8
9002-92-0	Ethoxylated lauryl alcohol	CA PROP.65: No; CA TAC, Title 8: No

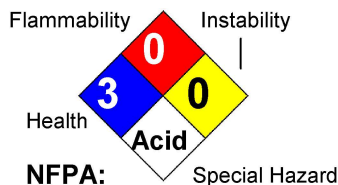
**16. Other Information**

**Revision Date:** 11/12/2020

**Hazard Rating System:**

<b>HEALTH</b>		<b>3</b>
<b>FLAMMABILITY</b>		<b>0</b>
<b>PHYSICAL</b>		<b>0</b>
<b>PPE</b>		<b>H</b>

**HMIS:**



**NFPA:**

**Additional Information About This Product:** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.