

Read all directions and cautions before use. LIME OUT is a special blend of hydrochloric acid and metal protecting inhibitors to remove lime and other mineral deposits from piping and equipment. It can be used safely in contact with iron, steel, copper, brass, bronze, and lead. Do not use LIME OUT on aluminum, magnesium, tin, nickel, zinc, chrome, galvanized, or enameled surfaces, concrete, marble, or terrazzo, since they are attacked by LIME OUT. In the case of contact, wipe clean and flush with water. Thoroughly rinse any equipment, such as funnels, pails, or hoses that are used with LIME OUT. The dissolving action of LIME OUT may open up holes which have been plugged by rust or scale. Dilute all spills with plenty of water.

**HOW TO CLEAR HOT WATER COILS:** Shut off water leading to coil. Disconnect coil inlet and outlet. On the inlet side, connect a copper or brass stand-pipe at least 6" higher than the outlet side. Check chart at right for proper strength. To dilute, always add LIME OUT to the water, using cold water only. DO NOT HEAT! Carefully and slowly pour the LIME OUT solution into the stand-pipe. If lime is present in the coil, immediate foaming action will be noted from the outlet connection of the coil. At intervals, continue adding LIME OUT. When all foaming action stops, the coil is clean. Flush coil thoroughly with cold water and when the water runs clear continue flushing for 10 minutes. Most coils can be cleaned quickly on the job. However, if the coil is completely clogged, remove it and submerge in a vat of LIME OUT, full strength. Let remain until clear, then flush thoroughly before reinstalling.

TO CLEAR	USE*	TO FLUSH
Hot water coils	1 part LIME OUT to 3 parts water	Discharge used solution into drain or sewer line. Flush thoroughly with cold water to further dilute. When used according to directions, will not affect septic tanks or cesspools.
Plaster and concrete	full strength	
Urinals and toilet bowls	full strength	
Boilers, valves steam equipment	1 part LIME OUT to 12 parts water	
Cooling towers	1 part LIME OUT to 15 parts water	
Rust stains	1 part LIME OUT to 20 parts water	
Unit heaters	1 part LIME OUT to 2 parts water	
Unit heats with circulating pump	1 part LIME OUT to 5 parts water	

\*Strengths recommended are based on average scale conditions. Strength may be increased or decreased depending on amount of scale present.

# LIME OUT

CONTAINS SPECIAL CORROSION INHIBITORS

## LIME, SCALE & RUST REMOVER

**DISSOLVES**  
**LIME • URINE SALTS • MINERAL DEPOSITS • CONCRETE**

**CLEARs**  
**BOILERS • HOT WATER COILS • WATER SYSTEMS • TOILET BOWLS HEATING & AIR CONDITIONING EQUIPMENT • URINALS • VALVES**

NET CONTENTS: 1 Quart (32 fl. oz.) (.95 Liter)



**DANGER**  
 Causes severe skin damage and eye damage  
 May cause respiratory irritation.

### PRECAUTIONS

Do not breathe mist, spray, vapors. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. **Wear eye protection, face protection, protective gloves.**



**If swallowed:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. **If on skin (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor. **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. **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. See Additional First Aid below.

Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to an approved waste disposal plant.

**Fire fighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. **Suitable extinguishing media:** Foam, dry powder, carbon dioxide, water spray, sand.

### ADDITIONAL FIRST AID

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label when possible). See Precautions above and Safety Data Sheet for further information.

**Precautions for Safe Handling**  
 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Do not breathe the vapors, spray, mist.

MANUFACTURED BY:  
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 For Emergencies, call **CHEMTEL: 800-255-3924**