



Rite-Qwik

Material Safety Data Sheet

Product Information

Trade Names or Synonyms: Rite-Qwik
Formula: Proprietary, Confidentiality Required
Chemical Family: Water scale cleaner

This revised report complies with MSDS and is in accordance with 29 CFR 1910.1200-1500 Hazardous Communication Act effective 25 November 1985 including Subpart Z. Furthermore, this report complies with all current WHMIS and Canadian Government Regulations.

Hazardous Ingredients

<u>Material or Component</u>	<u>TLV (p.p.m.)</u>	<u>Approximate %</u>
Hydrogen Chloride, Aqueous	5	Less than 10%

Note: Material is aqueous organic salt solution and as such should NOT be considered hazardous under normal use conditions.

Note: Laboratory tests indicate material to be BIODEGRADABLE. USDA approved for use in beverage, pharmaceutical, bottling, poultry and other food processing plants. USFDA has no jurisdiction over this product, since it never comes in direct contact with food.

Physical Data

Boiling Point:	213°F/101°C	Freezing Point:	0°F/-18°C
Percent volatile by volume:	99.6	Solubility in water:	Miscible
Appearance:	Dark Liquid	Specific Gravity, (water = 1):	1.045
Odor:	Roasted Almonds	Vapor pressure:	30 Torr.
Vapor Density, (Air = 1):	Greater than 1	Evaporation Rate, (water = 1):	Slow
Physical State:	Liquid	pH:	Unreadable, generally <3

Fire and Explosion Hazard Data

Flash Point: No flash point, extinguishes flame
Extinguishing Media: Does not support combustion
Special Fire Fighting Procedures: None, water will control, as will CO₂ and dry chemicals
Unusual Fire & Explosion Hazards: Non-combustible or explosive. Breathing apparatus recommended

HMIS

Health:	0
Flammability:	0
Reactivity:	0
Personal Protection:	B

Health Hazard Data

Effects of Overexposure: Should **not** be considered hazardous when used as directed.
Emergency and First Aid Exposures: If eye/skin contact, copious water rinse. Consult physician. Not to be taken internally. If ingested **do not** induce vomiting drink milk, egg whites, etc., as directed by physician.

Note: Adverse effects on human health are not expected from the Rite-Qwik solution, based upon 60+ years of use without reported adverse health incidences in diverse population groups, including extensive use in the U.S. Armed Forces.

Reactivity Data

Stability: Stable
Incompatibilities: (Materials to avoid): Strong caustics
Hazardous decomposition products: None
Hazardous Polymerization: Will not occur
Conditions to Avoid: Excessive heating

Spill and Disposal Procedures

Action to take for spills: Rinse with copious amounts of water to dilute; sodium bicarbonate may also be used to soak up and neutralize liquid, if necessary.
Disposal Method: Expended or used material may be disposed of down sewer system with water flush. Material is **Biodegradable** even before initial use.

Special Handling Information

Ventilation: Normal (Mechanical)
Respiratory: None required
Protective Gloves: Recommended, such as neoprene gloves
Eye Protection: Recommended, such as chemical goggles
Other Protective Equipment: As recommended by plant safety department. Aprons should be worn to prevent clothing from staining.

Special Precautions

Handling and Storing: Preserve integrity of container
Can Material be stored outside? Yes, maintain temperature of material between 10°F / 180°F (-12°C / 81°C)
Other Precautions: Do not circulate material for more than four-hour period without consulting the manufacturer. Most **Rite-Qwik** cleaning can be accomplished in an average of two hours. Please use material only as directed. If procedures are not published for your particular application, please call for assistance. Furthermore, **Rite-Qwik** is designed to be used by itself or diluted with water and water only! Do not heat. Use **Rite-Qwik** at an ambient temperature. Vent circulating solution to atmosphere. Some adverse reactions may occur with some alloys of aluminum, magnesium, and/or zinc. Please consult manufacturer.

Caution: Rite-Qwik is non-corrosive, however the application of **Rite-Qwik** may expose pre-existing corrosion after scale removal (pitting, holes or similar damage) that can result in leaks in pipes, equipment or systems.

For additional information, please review Rite-Qwik specifications or contact **Armstrong** Hot Water Group at (269) 279-3602.

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