



SPECIFICATIONS

1. **RYDLYME** is a non-hazardous, non-corrosive, non-injurious, non-toxic, yet fully biodegradable descaler, heavily fortified with wetting and penetrating agents which actually dissolves water scale, lime, mud, rust, and other water formed deposits from water operated equipment.
2. **RYDLYME** should be used as directed and at any temperature within the operating limits between 0°F / 18°C and 180°F / 82°C. If the solution does freeze, slush or thicken at the lower operating temperatures, and then thaws, there will be no performance reducing results. Please consult the manufacturer when temperatures above 180°F are encountered.
3. The solution does not deteriorate, oxidize, saponify, thicken or lose effectiveness for at least five years.
4. Although almost any chemical reaction will react faster under elevated temperatures, **RYDLYME** should be applied at ambient temperatures (50°F / 10° C and 75°F / 24°C) with full effectiveness and results obtainable.
5. The solution is exothermic, but does not develop a substantial increase in temperature while dissolving water scale, lime, mud, rust or other water formed deposits.
6. **RYDLYME** has the ability to dissolve approximately two pounds (1 Kilo) of calcium carbonate scale per U.S. gallon while at 70°F / 21°C, and in concentrated form. If the **RYDLYME** is diluted, it will still dissolve two pounds per gallon, but will require additional circulating time.
7. The concentrated solution can be held, safely, in the open hand without deleterious affects.
8. The solution is of a pleasant or characteristic odor, very similar to roasted almonds, and does not exude any obnoxious or unpleasant or toxic vapors.
9. **RYDLYME** does not corrode, erode, attack, oxidize or have other deleterious affects on virtually any metal or materials found in water systems such as:

COPPER
RUBBER

FIBER
STEEL

LEATHER
TITANIUM

IRON
GLASS

or other materials found in heat exchangers, vacuum pumps, evaporators, condensers, and/or other water cooled, water heated, or water operated equipment when used as directed.



10. The exception to number 9 above, when using 100% concentrated (non-diluted) **RYDLYME** on magnesium, zinc, and/or aluminum, it could oxidize or pit. Furthermore, polished chrome and some alloys of stainless steel could become discolored. It is not recommended for use with concentrated solutions. The rule of thumb is that if the alloy is designed for use in a water system (aluminum engine block, aluminum mold, etc.), the alloy should be compatible with the **RYDLYME** solution. Otherwise, it is recommended that the **RYDLYME** be diluted 50% or more with water when cleaning.
11. It is recommended, but not mandatory, that the **RYDLYME** solution be thoroughly mixed before using. Some settling of a black precipitate may occur, resulting in an amber colored liquid, but has no negative affects upon the performance of the solution.
12. The solution has a specific gravity of 1.045.
13. The solution has a vaporization temperature of 213°F / 100°C.
14. The solution does NOT have an open or closed cup flash point.
15. The solution does not require neutralizers, as it is free rinsing with water.
16. **RYDLYME** is an electrolyte, as are most cleaning agents. An electrolyte is any liquid that will transfer small electrical currents. Examples: salt water, vinegar, Coca-Cola. An electrolyte may cause plating in some types of equipment. This means a transfer of small amounts of one metal onto another metal according to the nobility chart. In some instances, a thin coating of copper may be plated onto a steel drum while circulating an electrolyte such as **RYDLYME**. The only time plating occurs is when two different metals are in an electrolytic solution.
17. The solution has the ability to dissolve deposits from some equipment while in operation and without shutdown, if auxiliary coolers are incorporated.
18. The solution has the properties to be mailed or shipped by any private or commercial carrier without restrictions. Air carriers for emergency deliveries may ship **RYDLYME** via next day air.
19. The solution is packaged and shipped in single gallon containers, 4x1 gallon cases, 5-gallon jugs, 30 and 55-gallon drums, and 275 and 330 gallon tote containers.



20. **Do not circulate material for more than a four-hour period without consulting the manufacturer. Most *RYDLYME* cleaning applications can be accomplished within an average of two to four hours. Please use material only as directed.**

21. **The foregoing specifications are applicable to our product, *RYDLYME*, when used according to instructions that are available upon request and in NO WAY are intended to cover other uses or applications by the purchaser.**

The solution is biodegradable with a BOD value of 16 mg/l. This allows the solution to be water flushed down normal plant sewers. Check with local ordinances and regulations in your area prior to disposal.

*The USDA has approved *RYDLYME* for use in all departments of official establishments operating under the Federal meat, poultry, shell egg grading, and egg products inspection programs.*

*For additional details regarding the specifications of *RYDLYME*, please contact the technical department at APEX ENGINEERING PRODUCTS CORPORATION or at our toll free number 800-451-6291.*