

**MATERIAL SAFETY DATA SHEET**  
**REVISED AUGUST 2013**

**APEX ENGINEERING PRODUCTS CORPORATION**

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For Chemical Emergency, Spill, Leak, Fire Exposure or Accident  
Call CHEMTREC Day or Night  
DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

**PRODUCT INFORMATION**

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TRADE NAMES OR SYNONYMS: RYDLYME, RID-LIME  
FORMULA: PROPRIETARY, CONFIDENTIALITY REQUIRED  
CHEMICAL FAMILY: WATER SCALE CLEANER

**HAZARDOUS INGREDIENTS**

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MATERIAL OR COMPONENT	TLV (p.p.m.)	PEL (p.p.m.)	APPROXIMATE %
HYDROGEN CHLORIDE, AQUEOUS	5	5	LESS THAN 10

**NOTE:** Laboratory tests indicate material to be **BIODEGRADABLE**. Certified to NSF/ANSI 60. NSF Registered for use in beverage, pharmaceutical, bottling, poultry, and other food processing plants. USFDA has no jurisdiction over the product, since it does not come in direct contact with food. Non-reportable under SARA Title 3: Section 311/312/313 Categorization. Not reportable under CERCLA.

**PHYSICAL DATA**

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BOILING POINT:	213° F / 101° C.
FREEZING POINT:	0° F / -18° C
SOLUBILITY IN WATER:	MISCIBLE
SPECIFIC GRAVITY, (WATER=1):	1.045
VAPOR PRESSURE:	30 TORR.
VAPOR DENSITY, (AIR=1):	GREATER THAN 1
PERCENT VOLATILE BY VOLUME:	99.6
APPEARANCE:	DARK LIQUID
ODOR:	ROASTED ALMONDS
pH:	UNREADABLE, GENERALLY < 3
EVAPORATION RATE, (WATER=1):	SLOW
PHYSICAL STATE:	LIQUID

**FIRE AND EXPLOSION HAZARD DATA**

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FLASH POINT:	NO FLASH POINT, EXTINGUISHES FLAME
EXTINGUISHING MEDIA:	DOES NOT SUPPORT COMBUSTION
SPECIAL FIRE FIGHTING PROCEDURES:	NONE-WATER WILL CONTROL, OR CO2/DRY CHEMICALS
UNUSUAL FIRE & EXPLOSION HAZARDS:	NON-COMBUSTIBLE OR EXPLOSIVE. BREATHING APPARATUS RECOMMENDED

**HMIS**

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HEALTH:	0
FLAMMABILITY:	0
REACTIVITY:	0
PERSONAL PROTECTION:	B

## HEALTH HAZARD DATA

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**EFFECTS OF OVER EXPOSURE:  
EMERGENCY & FIRST AID:**

SHOULD NOT BE CONSIDERED HAZARDOUS WHEN USED AS DIRECTED.  
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  
RYDLYME SOLUTION, BASED UPON 70+ YEARS OF USE WITHOUT  
REPORTED ADVERSE HEALTH INCIDENCE IN DIVERSE POPULATION  
GROUPS, INCLUDING EXTENSIVE USE IN THE U.S. ARMED FORCES.

## REACTIVITY DATA

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**STABILITY:  
INCOMPATIBILITIES:  
HAZARDOUS DECOMPOSITION PRODUCTS:  
HAZARDOUS POLYMERIZATION:  
CONDITIONS TO AVOID:**

STABLE  
STRONG CAUSTICS  
NONE  
WILL NOT OCCUR  
EXCESSIVE HEATING

## SPILL AND DISPOSAL PROCEDURES

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**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 WITH  
WATER FLUSH IN ACCORDANCE WITH THE LOCAL, STATE, PROVINCIAL, AND  
FEDERAL REGULATIONS FOR YOUR LOCATION. MATERIAL IS  
**BIODEGRADABLE**-EVEN IN AS RECEIVED FORM.

## SPECIAL HANDLING INFORMATION

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**VENTILATION:  
RESPIRATORY:  
PROTECTIVE GLOVES:  
EYE PROTECTION:  
OTHER PROTECTIVE EQUIPMENT:**

NORMAL (MECHANICAL)  
NONE  
RECOMMENDED, SUCH AS NEOPRENE GLOVES.  
RECOMMENDED, SUCH AS CHEMICAL GOGGLES.  
AS RECOMMENDED BY PLANT SAFETY DEPARTMENT. TO PREVENT  
STAINING OF CLOTHES, WEAR AN APRON.

## SPECIAL PRECAUTIONS

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**HANDLING AND STORING:  
CAN MATERIAL BE STORED OUTSIDE?  
OTHER PRECAUTIONS:**

PRESERVE INTEGRITY OF CONTAINER.  
YES, MAINTAIN TEMPERATURE BETWEEN 10°-180° F.

Please use material only as directed. If procedures are not published for your particular application, please call for assistance. Furthermore, **RYDLYME** is designed to be used by itself or diluted with water and water only. Do not heat. Use **RYDLYME** 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 the manufacturer.

**CAUTION:** **RYDLYME** is non-corrosive, but the application of **RYDLYME** may expose pre-existing under deposit corrosion (pitting, holes or similar damage) that can result in leaks in pipes, equipment or systems.

**FOR ADDITIONAL INFORMATION, PLEASE REVIEW THE RYDLYME SPECIFICATIONS OR CONTACT  
OUR MANUFACTURING FACILITY AT 800-451-6291.**

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