

MATERIAL SAFETY DATA SHEET
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APEX ENGINEERING PRODUCTS CORPORATION

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Phone: 800-451-6291 FAX: 630-820-8886

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

TRADE NAMES OR SYNONYMS:

RYDLYME, RID-LIME

FORMULA:

PROPRIETARY. CONFIDENTIALITY REQUIRED

CHEMICAL FAMILY:

WATER SCALE CLEANER

HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT
HYDROGEN CHLORIDE, AQUEOUS

TLV (p.p.m.)
5

PEL (p.p.m.)
5

APPROXIMATE %
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 CFRCLA.

PHYSICAL DATA

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

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

HEALTH:

0

FLAMMABILITY:

0

REACTIVITY:

0

PERSONAL PROTECTION:

B

HEALTH HAZARD DATA

**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 60+ YEARS OF USE WITHOUT
REPORTED ADVERSE HEALTH INCIDENCE IN DIVERSE POPULATION
GROUPS, INCLUDING EXTENSIVE USE IN THE U.S. ARMED FORCES.

REACTIVITY DATA

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

STABLE
STRONG CAUSTICS
NONE
WILL NOT OCCUR
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 WITH
WATER FLUSH. MATERIAL IS **BIODEGRADABLE**-EVEN IN AS RECEIVED
FORM.

SPECIAL HANDLING INFORMATION

**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

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

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

Do not circulate material for more than a six hour period without consulting the manufacturer. Most **RYDLYME** cleanings can be accomplished within an average of two-four hours. 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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