

3/31/05

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APEX ENGINEERING PRODUCTS CORPORATION

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MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION

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

HAZARDOUS INGREDIENTS

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

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 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

BOILING POINT:	101° 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 & EXPLSION HAZARDS:	NON-COMBUSTIBLE OR EXPLOSIVE. BREATHING APPARAUS RECOMMENDED

HMIS

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

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HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NONE FOR TOTAL-MATERIAL IS AN AQUEOUS ORGANIC SALT SOLUTION AND AS SUCH HAS LITTLE VAPOR PRESSURE AND NO NOXIOUS FUMES.

EFFECTS OF OVEREXPOSURE: SHOULD NOT BE CONSIDERED HAZARDOUS WHEN USED AS DIRECTED.

EMERGENCY & FIRST AID: 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: STABLE

INCOMPATIBILITIES: 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 WITH WATER FLUSH. MATERIAL IS BIODEGRADABLE-EVEN IN AS RECEIVED FORM.

SPECIAL HANDLING INFORMATION

VENTILATION:

1. LOCAL EXHAUST:	NORMAL
2. MECHANICAL:	SUFFICIENT
3. RESPIRATORY:	NONE

PROTECTIVE GLOVES: RECOMMENDED, SUCH AS NEOPRENE GLOVES.

EYE PROTECTION: RECOMMENDED, SUCH AS CHEMICAL GOGGLES.

OTHER PROTECTIVE EQUIPMENT: AS RECOMMENDED BY PLANT SAFETY DEPARTMENT. TO PREVENT STAINING OF CLOTHES, WEAR AN APRON.

SPECIAL PRECAUTIONS

HANDLING AND STORING: PRESERVE INTEGRITY OF CONTAINER.

CAN MATERIAL BE STORED OUTSIDE? YES, MAINTAIN TEMPERATURE BETWEEN 10°-180° F.

IS MATERIAL FREEZABLE? YES.

OTHER PRECAUTIONS: 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. 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.

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

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