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# APEX ENGINEERING PRODUCTS CORPORATION

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## MATERIAL SAFETY DATA SHEET

|                                    | TRADE NAMES OR SYNONYMS:  FORMULA:  CHEMICAL FAMILY:  RYDLYME, RID-LIME  PROPRIETARY, CONFIDENTIALITY REQUIRED  WATER SCALE CLEANER           |   |  |                               |
|------------------------------------|---|---|--|-------------------------------|
|                                    |   |   |  | REQUIRED                      |
| CH                                 | ENICAL PARMUI.  | , , , , , , , , , , , , , , , , , , ,                   |  |                               |
| Hazard                             | OUS INGREDIENTS   |   |  |                               |
|                                    | TERIAL OR COMPONENT<br>DROGEN CHLORIDE, AQUEOUS   | TLV (p.p.m.)  | PEL (p.p.m.)<br>5                                      | APPROXIMATE %<br>LESS THAN 10 |
| bottling, poult<br>contact with fo | oratory tests indicate material to be BIODEGR ry, and other food processing plants. USFDA h ood. Non-reportable under Sara Title 3: Section 3 | as no jurisdiction ov<br>11/312/313 Categori:           | er the product, since                                  | it does not come in direct    |
| PHYSICA                            | L DATA  |   |  |                               |
| SO<br>SP<br>VA                     | DILING POINT: LUBILITY IN WATER: ECIFIC GRAVITY, (WATER=1): LPOR PRESSURE:  | 101° C.<br>MISCIBLE<br>1.045<br>30 TORR.                | N. 1   |                               |
| PE<br>AI                           | LPOR DENSITY, (AIR=1):<br>CRCENT VOLATILE BY VOLUME:<br>PPEARANCE:<br>DOR:  | GREATER THA<br>99.6<br>DARK LIQUID<br>ROASTED ALM       |  |                               |
|                                    | I:<br>/APORATION RATE, (WATER=1):<br>iysical state:   | UNREADABLE,<br>SLOW<br>LIQUID                           | GENERALLY <3   |                               |
|                                    | D EXPLOSION HAZARD DATA   |   | ,  |                               |
| FIRE AN                            | D EAFLOSION HAZARO DATA   | ~   |  |                               |
| FI<br>E<br>SI                      | LASH POINT:  KTINQUISHING MEDIA: PECIAL FIRE FIGHTING PROCEDURES: NUSUAL FIRE & EXPLSION HAZARDS:   | DOES NOT SUI<br>NONE-WATER                              | TIBLE OR EXPLOSI                                       | N<br>R CO2/DRY CHEMICAL       |
| FI<br>E<br>SI                      | LASH POINT:<br>KTINQUISHING MEDIA:<br>PECIAL FIRE FIGHTING PROCEDURES:  | DOES NOT SUI<br>NONE-WATER<br>NON-COMBUS                | PPORT COMBUSTIO<br>WILL CONTROL, O<br>TIBLE OR EXPLOSI | N<br>R CO2/DRY CHEMICAL       |
| HMIS_                              | LASH POINT:<br>KTINQUISHING MEDIA:<br>PECIAL FIRE FIGHTING PROCEDURES:<br>NUSUAL FIRE & EXPLSION HAZARDS:                                     | DOES NOT SUI<br>NONE-WATER<br>NON-COMBUS<br>APPARAUS RE | PPORT COMBUSTIO<br>WILL CONTROL, O<br>TIBLE OR EXPLOSI | N<br>R CO2/DRY CHEMICAL       |
| HMIS_                              | LASH POINT:  KTINQUISHING MEDIA: PECIAL FIRE FIGHTING PROCEDURES: NUSUAL FIRE & EXPLSION HAZARDS:  EALTH:                                     | DOES NOT SUI<br>NONE-WATER<br>NON-COMBUS                | PPORT COMBUSTIO<br>WILL CONTROL, O<br>TIBLE OR EXPLOSI | N<br>R CO2/DRY CHEMICAL       |
| HMIS_                              | LASH POINT:<br>KTINQUISHING MEDIA:<br>PECIAL FIRE FIGHTING PROCEDURES:<br>NUSUAL FIRE & EXPLSION HAZARDS:                                     | DOES NOT SUI<br>NONE-WATER<br>NON-COMBUS<br>APPARAUS RE | PPORT COMBUSTIO<br>WILL CONTROL, O<br>TIBLE OR EXPLOSI | N<br>R CO2/DRY CHEMICAL       |

(continued)

### 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 EXCESSIVE HEATING

CONDITIONS TO AVOID:

### 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:

LOCAL EXHAUST:

NORMAL

MECHANICAL:

SUFFICIENT

PROTECTIVE GLOVES:

RESPIRATORY:

EYE PROTECTION:

RECOMMENDED, SUCH AS NEOPRENE GLOVES.

OTHER PROTECTIVE EQUIPMENT:

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? IS MATERIAL FREEZABLE? OTHER PRECAUTIONS:

PRESERVE INTEGRITY OF CONTAINER.

YES, MAINTAIN TEMPERATURE BETWEEN 10°-180° F.

YES.

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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