

APEX ENGINEERING PRODUCTS CORPORATION
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SAFETY DATA SHEET

Revised May, 2024

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Identifier

RYDLYME (pronounced: *rid-lime*)
Aqueous water scale cleaner/descaler.



Relevant identified uses of the product and uses advised against

General use: Aqueous acidic cleaner for the removal of calcium, lime, rust and other mineral deposits.

Uses advised against: Do not mix with oxidizing agents or caustics such as bleach.

Manufacturer Information

Apex Engineering Products Corporation, established 1942
1241 Shoreline Drive
Aurora, Illinois 60504
An ISO 9001:2015 Certified Company



Emergency Phone (Chemtrec): 800-424-9300 (Domestic and Canada)

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Causes mild skin irritation	Category 2
Causes eye irritation	Category 2A

Hazard pictograms:



Signal word: Warning

Hazard statements:

H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary statements:

(Prevention) P264: Wash hands thoroughly after handling.
P265: Do not touch eyes.
P280: Wear protective gloves and eye protection.
P281: Use personal protective equipment as required.

(Response) P302+P352: IF ON SKIN: Wash with soap and water.
P321: Specific treatment, see section 4 of this SDS.
P332+P317: If skin irritation occurs, get medical attention.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes, remove contact lenses if present and easy to do, continue rinsing.
P337+P317: If eye irritation persists, get medical attention.
P362+P364: Take off contaminated clothing, and wash before reuse.

Other hazards: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS ---

Substance: Not applicable.

Mixture: Chemical characterization (preparation).

CAS	PRODUCT NAME: RYDLYME	% by Weight
7647-01-0	Hydrochloric acid	5-9

There are no additional ingredients present which are classified as hazardous to health or the environment. Confidential Business Information (CBI) is not harmonized under the Global Harmonized System (GHS). The full disclosure of this products' ingredients is protected under the Illinois Trade Secret Act. However, the CBI provisions have not compromised the health and safety of our users. Laboratory tests indicate the material to be biodegradable. Certified by NSF to NSF/ANSI Standard 60, NSF Registered A3 for use in beverage, pharmaceutical, bottling, poultry, and other food processing plants.

4. FIRST AID MEASURES ---

Description of first aid measures

After inhalation: Product is not designed to be misted, however, if product mist causes respiratory irritation or distress, move the exposed person to fresh air immediately. If irritation persists, seek medical attention.

After skin contact: Wash affected area with soap and water. If irritation persists, seek medical attention.

After eye contact: Immediately flush eyes with large amounts of water for 15 minutes. Remove contact lenses if present and continue rinsing. If irritation persists, seek medical attention.

After swallowing: Do not induce vomiting, drink milk, egg whites, etc. and seek immediate medical attention.

Most important symptoms and effects, both acute and delayed

NOTE: Adverse effects on human health are not expected from *RYDLYME*, based upon over 80 years of use without reported adverse health incidence in diverse population groups, including extensive use by Armed Forces.

Potential health symptoms and effects

Eyes: Causes moderate eye irritation. Symptoms include redness, stinging, tearing and swelling.

Skin: May cause mild irritation. Repeated and prolonged contact may result in drying or cracking of skin.

Inhalation: Inhalation of mist or spray may cause mild irritation of the respiratory tract.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

5. FIRE-FIGHTING MEASURES ---

Extinguishing media

Suitable extinguishing media: Use extinguishing media suitable for the surrounding fire.

Unsuitable media: None known.

Specific hazards arising from the mixture: None known.

Advice for firefighters

Protective equipment: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent and full protective gear).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear appropriate protective clothing designated in Section 8. Ventilate the area.

Environmental precautions: Rinse area with copious amounts of water to dilute. Sodium bicarbonate may also be used to absorb and/or neutralize liquid. Dispose of material in accordance with the local, State, Provincial, and Federal regulations for your location.

Methods and materials for containment and cleaning up: Absorb with liquid binding material.

7. HANDLING AND STORAGE

Precautions for safe handling: Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use.

Condition for safe storage: Keep in cool, dry, ventilated storage areas in closed containers. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. The recommended storage temperature is between -18°C/0°F and 82°C/180°F. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: Contains no substances with occupational exposure values.

Exposure controls

Engineering: Maintain general industrial hygiene practices. Use normal exhaust, vent to atmosphere.

Personal protective equipment: Facilities storing or using this material should be equipped with an eyewash station. Change contaminated clothing. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Respiratory equipment: None required under normal operating conditions.

Protective gloves: Wear non-porous gloves such as latex or chemical resistant.

Eye protection: Wear protective safety glasses during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Dark
Odor:	Comparable to Almonds
pH:	Unreadable, generally < 3
Freezing point:	-26°C (-15°F)
Initial boiling point:	101°C (213°F)
Flash point:	Not applicable
Evaporation rate:	Not available
Flammability:	Not applicable
Lower explosive limit (LEL)	Not applicable
Upper explosive limit (UEL)	Not applicable
Vapor Pressure:	Not available
Density (g/cm³):	Approximately 1
Solubility in Water:	Complete

Kinematic viscosity:

Not available

10. STABILITY AND REACTIVITY

Reactivity: No special reactivity reported, hazardous polymerization will not occur.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None known.

Conditions to Avoid: Extreme temperatures, contact with incompatible materials.

Incompatible materials: Strong alkalis, oxidizing agents, chlorinated products (such as bleach).

Hazardous decomposition: None known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

No toxicity tests have been carried out for this product. Acute toxicity data was estimated based on the toxicity of the individual components contained in this product.

Acute oral toxicity: Product is expected to have low acute oral toxicity.

Acute inhalation toxicity: Product is expected to have low acute inhalation toxicity.

Acute dermal toxicity: Product is expected to have low acute dermal toxicity.

Skin irritation: May cause mild skin irritation.

Eye irritation: Causes moderate eye irritation.

Sensitization: No sensitizing effects known.

Carcinogenic categories: None of the components of this product are listed as carcinogens by AGCIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Aquatic toxicity: Product is expected to have low toxicity to aquatic organisms.

Persistence and degradability: Product is readily biodegradable.

Bioaccumulation potential: Material will not bioaccumulate.

Mobility in soil: The components of this product are water soluble and highly mobile in soil.

Results of PBT and vPvB assessment: No data available.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Unused product can be disposed of down sanitary sewers with water. Used solution may be hazardous as a result of the pre-existing contaminants present in the equipment being cleaned. Dispose of material in accordance with the local, State, Provincial, and Federal regulations for your location.

Contaminated packaging: Rinse with water and offer for recycling, if available in your area. Otherwise, dispose as non-hazardous waste.

14. TRANSPORT INFORMATION

UN Number: DOT-Not regulated, IMDG/IATA-Not applicable.

UN proper shipping name: DOT/IATA-Not applicable, IMDG-Not regulated.

Transport hazard class(es): DOT/IMDG/IATA-Not applicable.

Packing group: DOT/IMDG/IATA-Not applicable.

Marine pollutant: No.

Special precautions: Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for substance or mixture

U.S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

OSHA Process Safety Management Standard: Components of this product are not regulated under OSHA PSM Standard 29 CFR 1910.119.

TSCA Status: All components of this product are listed as active on the Toxic Substance Control Act (TSCA) Inventory.

SARA Section 311/312 Hazard Categories: Not classified as hazardous.

SARA 313 Information: Not listed.

Comprehensive Response Compensation and Liability Act (CERCLA): Not reportable.

Clean Air Act (CAA): This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

Clean Water Act (CWA): None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains no component(s) known to the state of California to cause cancer or other reproductive harm.

Canada Regulations

WHMIS Hazard Symbol and Classification: Exclamation Mark. Classified as hazardous.

Domestic Substance List (DSL): All components in this product are listed on the DSL inventory.

Canadian National Pollutant Release Inventory (NPRI): None of the components in this product are listed on the NPRI or are below threshold reporting limits.

Canadian Food Inspection Agency (CFIA): *RYDLYME* has been approved as a non-food chemical for use in federally registered food establishments.

16. OTHER INFORMATION

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 ambient temperature. Vent circulating solution to atmosphere. Some adverse reactions may occur with some alloys of aluminum, magnesium, zinc and/or other sacrificial/inferior metallurgies. 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.

HMIS: Health: 1 Flammability: 0 Reactivity: 0 PPE: B

NFPA: 1, 0, 0, (null)

RYDLYME	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B
HEALTH HAZARDS:	



**FOR ADDITIONAL INFORMATION, PLEASE CONTACT OUR MANUFACTURING FACILITY
AT 630-820-8888 OR OUR WEBSITE AT www.ApexEngineeringProducts.com.**

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