

APEX ENGINEERING PRODUCTS CORPORATION

1241 Shoreline Drive

Aurora, IL 60504

Phone Number: 001 630-820-8888 Fax: 001630-820-8886

SAFETY DATA SHEET

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 strong oxidizing agents or strong caustics.

Manufacturer Information

Apex Engineering Products Corporation, established 1942
1241 Shoreline Drive
Aurora, Illinois 60504, USA

Distributed in the UK & Europe by:

Rico Industrial Services Ltd
Units 3 & 4 Henry Edwards Ind. Est.
Boraston Lane, Tenbury Wells, WR15 8LE, UK
Tel 00 44 (0)1584 811716

Emergency Phone (Chemtrec): 001 800-424-9300 (Domestic), 001 703-527-3887 (International)

2. HAZARD IDENTIFICATION _____

Classification of the substance or mixture

Mixture

Hazard pictograms:



Signal word:

Warning

Hazard statements: H303: May be harmful if swallowed.
H316: Causes mild skin irritation.
H320: Causes eye irritation.

Precautionary statements:

(Prevention) 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+P313: 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+P313: If eye irritation persists, get medical attention.

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, within the current knowledge of the supplier, are classified as hazardous to the 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.

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, after the first 5 minutes 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

Potential health symptoms and effects

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

Skin: May cause mild to moderate irritation. Repeated and prolonged use may result in drying or cracking of skin or dermatitis.

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

Ingestion: May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting, and diarrhoea.

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 labelling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. The recommended storage temperature is between -12°C/10°F and 81°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. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Respiratory equipment: None required under normal operating conditions, even when materials vapours and/or mists occur.

Protective gloves: Recommended however not mandated. Material is non-toxic and can be held in the open hand without risk.

Eye protection: Wear protective goggles or safety glasses during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Liquid
Odour:	Comparable to Almonds
Odour threshold:	Not applicable
pH:	Unreadable, generally < 3
Freezing/melting point:	-26°C (-15°F)
Initial boiling point:	100°C (212°F)
Flash point:	Not applicable
Evaporation rate:	Not determined
Flammability (solid, gas):	Not applicable
Lower explosive limit (LEL):	Not determined
Upper explosive limit (UEL):	Not determined
Vapour Pressure:	Not determined
Density at 20°C:	1.045 g/cm ³ (8.7208 lbs/gal).
Solubility in Water:	Complete
Partition coefficient (n-octano/water):	Not determined
Auto ignition temperature:	Not determined
Decomposition temperature:	Not determined

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 to severe eye irritation.

Sensitization: No sensitizing effects known.

Carcinogenic categories: None of the components of this product are listed as carcinogens by ACGIH, 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 bio accumulate.

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 not 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 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 chemical(s) known to the state of California to cause cancer or other reproductive harm.

Canada

WHMIS Hazard Symbol and Classification: Not applicable/Not classified as hazardous

Canadian Ingredient Disclosure List (IDL): None of the components in this product are listed on the IDL.

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

EU Regulations

Authorisations and or restrictions of use: none.

Other EU legislation: Commission Regulations (EU) No. 474/2014 of 8 May 2014 amending Annex XVII to regulation (EC) No 1907/2006.

Commission regulation (EU) No 944/2013 of 2 October 2013 amending (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Waste Framework directive 2008/98/EC.

National regulations (UK)

Management of health and safety at work regulations (1999)

Control of Substances Hazardous to Health Regulations (COSHH 2002)

Personal Protective Equipment Regulations (2002)

Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

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 an ambient temperature. Vent circulating solution to atmosphere. Some adverse reactions may occur with some alloys of aluminium, 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.

Date of preparation: Creation date for SDS 1st March 2015.

FOR ADDITIONAL INFORMATION, PLEASE CONTACT OUR MANUFACTURING FACILITY AT 001 630-820-8888 OR OUR WEBSITE AT www.ApexEngineeringProducts.com.

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