

REVISED MAY 2008

APEX ENGINEERING PRODUCTS CORPORATION

1241 Shoreline Drive

Aurora, IL 60504

Phone Number: 630-820-8888 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)**

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION _____

Trade Name

RYDALL CX (pronounced: *rid-all, C.X.*)

Manufacturer Information

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

2. COMPOSITION, INFORMATION OR INGREDIENTS _____

Formula

Proprietary, confidentiality required

Chemical Family

Biodegradable Degreaser / Cleaner

<u>Chemical and Common Name</u>	<u>C.A.S.</u>	<u>Percent</u>	<u>TLV (p.p.m.)</u>
N-methyl-2-pyrrolidone	872-50-4	2.5-10	
2-butoxyethanol	111-76-2	0-5	20
Sulfuric acid	7664-93-9	0-5	
Citric acid	77-92-9	0-5	
Sodium iso alkyl sulfate	126-92-1	0-5	
Water	7732-18-5	balance	

The only ingredient of **RYDALL CX** with established exposure limits is undiluted 2-butoxyethanol. **RYDALL CX** contains no known EPA priority pollutants, heavy metals or chemicals listed under RCRA, CERCLA, or CWA. All components of **RYDALL CX** are listed on the TSCA Chemical Substance Inventory.

3. HAZARDOUS IDENTIFICATION

Eye Contact: This product may cause irritation to the eyes.
Skin Contact: This product may cause irritation to the skin.
Inhalation: This product may cause irritation to the respiratory system.
Ingestion: Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.
HMIS: Health: 1 Flammability: 0 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.
Skin Contact: Immediately wash with water and soap and rinse thoroughly.
Inhalation: Supply fresh air; consult doctor in case of complaints.
Ingestion: May cause stomach or intestinal upset if swallowed. Do not induce vomiting – drink milk, egg whites, etc. Consult a physician.

5. FIRE-FIGHTING MEASURES

RYDALL CX is stable, non-flammable, and will not burn. No special procedures required.

Flash Point/Auto-Ignition: Not flammable
Flammability Limits: Not flammable
Extinguishing Media: Not flammable / nonexplosive
Special Fire Fighting Procedures: None required
Personal 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: Wear protective clothing. Avoid contact with eyes.
Procedures for cleanup: Dilute with plenty of water. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, etc.). Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling Procedures: As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Storage Conditions: Preserve integrity of container. Do not freeze. The recommended storage temperature is between 30°F and 150°F.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: The *RYDALL CX* formulation presents no health hazards to the user when used according to directions for its intended purposes. Eye and skin irritation is possible.
Eye Protection: Use of safety glasses with side shields is recommended.
Skin Protection: Rubber gloves.
Respiratory Protection: None required under normal use conditions.
Engineering Controls: Use with adequate ventilation or normal exhaust.

Other Equipment: As recommended by plant safety department. Aprons may be worn to prevent clothing from staining. Use good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES _____

Appearance:	Red Liquid
Color:	Red
Physical State:	Liquid
Odor:	Characteristic
pH:	1.2
Viscosity:	Comparable to Water
Specific Gravity (Water = 1):	Not tested
Vapor Density (Air = 1):	1.035 g/cm ³
Vapor Pressure:	17 mm Hg (23 hPa)
Boiling Point:	212°F (100°C).
Solubility in Water:	100%
Percent Volatility:	9.3
Evaporation Rate (Water = 1):	>1

10. STABILITY AND REACTIVITY _____

Instability:	This material is considered stable.
Conditions to Avoid:	None known.
Incompatibility:	Reacts with strong alkali.
Hazardous Decomposition:	None expected.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION _____

Acute Data:	Irritant to skin and mucous membranes.
Carcinogenicity:	None of the ingredients found in the solution are known carcinogens.

12. ECOLOGICAL INFORMATION _____

Environmental Toxicity: The surfactants contained in the product correspond to the Detergents Regulation 648/2004 EC on the biodegradability of detergents and can therefore be named as biodegradable.
Analyzing method: OECD 301 D (67/548/EEC Annex V, C.4-E)

13. DISPOSAL CONSIDERATIONS _____

Disposal Method: Dispose of in accordance with all applicable local, state, and federal laws. Dispose of used or unused product, and empty containers in accordance with the local, state, provincial, and federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

14. TRANSPORT INFORMATION

This product is considered non-hazardous for transport according to the United States Department of Transportation Services.

UN Number: Not required.
Dangerous Goods Class: Non-hazardous.

15. REGULATORY INFORMATION

Working Classification: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200-1500), including Subpart Z.

This product complies with all current Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA Title III: Section 311/312/313 Categorization (40CFR 370): Considered non-reportable.

CERCLA Information (40CFR 302.4): Release of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or to state and local Emergency planning committees under the Superfund Amendments and Reauthorization Act).

Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA'S characteristics definition of ignitibility, corrosivity, or reactivity and is not listed in 40CFR 261.33.

United States: All components of this product are in compliance with the inventory listing requirements of U.S. Toxic Substance Control Act (TSCA Chemical Substance Inventory).

16. OTHER INFORMATION

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

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