

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 VP** (pronounced: *rid-all, V.P.*)

**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	0-5	
2-butoxyethanol	111-76-2	0-5	20
Sodium iso alkylsulfate	126-92-1	0-5	
Water	7732-18-5	balance	

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

**3. HAZARDOUS IDENTIFICATION** \_\_\_\_\_

**Eye Contact:** This product may cause irritation to the eyes.  
**Skin Contact:** Generally, this product will not 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: 0 Flammability: 0 Reactivity: 0

#### 4. FIRST AID MEASURES

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**Eye Contact:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.

**Skin Contact:** No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Under this condition, use of gloves or skin moisturizer after washing may be indicated.

**Inhalation:** No adverse effects expected under typical use conditions. Adequate ventilation should be present when using *RYDALL VP* over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

**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

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*RYDALL VP* 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

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**Personal Precautions:** Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak. Eye protective safety glasses with side shields are recommended, however not mandated. Area isolation is not necessary, as product is of no risk to personnel.

**Procedures for cleanup:** Recover usable material by convenient method, residual may be removed by wipes or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water to rinse.

#### 7. HANDLING AND STORAGE

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**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 VP* formulation presents no health hazards to the user when used according to directions for its intended purposes. Eye irritation is possible. No special precautionary measures required under normal use conditions.

**Eye Protection:** Use of safety glasses with side shields is recommended, however not mandated.

**Skin Protection:** Recommended, however not mandated.

**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 \_\_\_\_\_

<b>Appearance:</b>	Violet Liquid
<b>Color:</b>	Violet
<b>Physical State:</b>	Liquid
<b>Odor:</b>	Characteristic
<b>pH:</b>	8.0
<b>Viscosity:</b>	Comparable to Water
<b>Specific Gravity (Water = 1):</b>	Not tested
<b>Vapor Density (Air = 1):</b>	1.010 g/cm <sup>3</sup>
<b>Vapor Pressure:</b>	17 mm Hg (23 hPa)
<b>Boiling Point:</b>	212°F (100°C).
<b>Solubility in Water:</b>	100%
<b>Percent Volatility:</b>	9.3
<b>Evaporation Rate (Water = 1):</b>	>1

## 10. STABILITY AND REACTIVITY \_\_\_\_\_

**Instability:** This material is considered stable.

**Conditions to Avoid:** None known.

**Incompatibility:** None known.

**Hazardous Decomposition:** None expected.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION \_\_\_\_\_

**Acute Data:** No irritation or sensitizing effects are known to exist.

**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](http://www.ApexEngineeringProducts.com).**

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