



## SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name:** R-590  
**Product Code:** 3003810320

**Product Type:** Synthetic Vacuum Pump Lubricant  
**Intended Use:** Industrial Vacuum System

**Supplier:**  
Edmac  
11313 Steele Creek Road  
Charlotte, NC 28273

**Emergency Spill Information:**  
704-504-4066 (US)

## SECTION 2 – COMPOSITION – INFORMATION ON INGREDIENTS

### Reportable Hazardous Substance or Complex Substance

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

\* Concentration is percent by weight.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## SECTION 3 – HAZARDS IDENTIFICATION

GHS Product Classification: None

Emergency Overview: This product has been evaluated and does not require any hazard warning on the label under OSHA criteria. The product does not require a hazard warning label in accordance with GHS criteria according to REGULATION (EC) No 1272/2008.

Risk Phrases: None

Safety Phrases: S24, S26, S29/35, S36/37/39, S57, S62, S63

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HMIS Code: (Health: 1) (Flammability: 1) (Physical Hazard: 0) (Protection: B)

NFPA Code: (Health: 1) (Flammability: 1) (Reactivity: 0)

WHMIS Code: None

#### **SECTION 4 – FIRST AID MEASURES**

Eye: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin: After contact with skin, take off immediately all contaminated clothing, wash immediately with plenty of soap and water.

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately.

Symptoms/effects: Mild irritation may occur with overexposure.

Special treatment: Treat symptomatically.

#### **SECTION 5 – FIRE FIGHTING MEASURES**

Suitable Extinguishing Media: In case of fire use dry chemical, carbon dioxide, foam, steam, or water fog.

Unsuitable Extinguishing Media: Never use water.

Specific Hazards: Keep away from extreme heat and open flames.

Hazardous Combustion Products: Incomplete combustion results in oxides of carbon.

Fire Fighting Equipment: Fire fighters should wear an approved self-contained breathing apparatus.

#### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal precautions: Wear suitable protective clothing and gloves.**

**Environmental precautions: Use appropriate containment to avoid environmental contamination. Do not empty into drains; dispose of this material and its container in a safe way.**

**Methods and materials for cleanup: To clean the floor and all objects contaminated by this material use an inert absorbent material.**

#### **SECTION 7 – HANDLING AND STORAGE**

Handling: No special requirements if handled with reasonable care. Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.

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Storage: Keep in a cool place away from open flames. No special storage precautions required.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: In case of insufficient ventilation wear suitable respiratory equipment.

**Protective Equipment: Wear suitable protective clothing, gloves and eye/face protection.**

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear, amber colored liquid
Odor	: Mild
Odor Threshold	: Not Determined
Apparent pH	: 7-8.5 Method: ASTM D1293
Melting Point / Freezing Point	: Pour Point (-25 °F)
Initial Boiling Point	: Not applicable, decomposes
Flash Point	: 224°C (435 °F) (Base fluid) Method: ASTM D93
Evaporation Rate	: Not determined
Flammability	: Not flammable
Upper/Lower Explosive Limits	: Not determined
Vapor Pressure	: < 0.133 kPa (1 mm Hg) at 20 ° ASTM D5482
Vapor Density	: Not determined
Specific Gravity	: 0.90 g/cm <sup>3</sup> @ 25 °C Method: ASTM D1475
Solubility in Water	: insoluble, floats on top of water.
Partition Coefficient	: Not determined Method: ASTM E1147
Autoignition Temperature	: Not determined Method: ASTM E659
Decomposition Temperature	: Not determined Method: ASTM E2550
Viscosity	: 101.4 @ 40°C Method: ASTM D445

## SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Material is normally stable at moderately elevated temperatures and pressures.

Hazardous Reactions: None.

Conditions to Avoid: Keep away from extreme heat.

Materials to Avoid: Keep away from chlorine, fluorine, and other strong oxidizers.

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Hazardous Decomposition Products: None identified.

## SECTION 11 – TOXICOLOGICAL INFORMATION

Eye Contact: Mildly irritating to eyes.

Skin Contact: Prolonged or repeated contact may cause skin irritation. High pressure injection into or under the skin should be considered a medical emergency, and treated immediately.

Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Base fluid data indicates LC 50 > 5000 mg/m<sup>3</sup>

Ingestion: No significant health hazards identified. Base fluid data indicated LD 50 > 5000 mg/kg.

Primary Routes of Entry: None identified.

### - ACUTE EXPOSURE --

Toxicological testing has not been conducted on this product.

Dermal Toxicity	The LD 50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity	No data available to indicate product may be a toxic inhalation hazard, but not recommended for breathing air compressors.
Oral Toxicity	The LD50 in rats is > 5000 mg/kg. based on data from base fluid or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.
Dermal Sensitization	No data available to indicate product may be a skin sensitizer.
Inhalation Sensitization	No data available to indicate product may be a respiratory sensitizer.

### -- CHRONIC EXPOSURE --

Toxicological testing has not been conducted on this formulated product. Statement below is based on information from the supplier of one of the base fluids:

“The NTP Center for Evaluation of Risks to Human Reproduction has concluded that

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there is negligible concern for reproductive effects in adults and minimal concern for developmental effects in fetuses and children due to DIDP exposure.”

## **SECTION 12 – ECOLOGICAL INFORMATION**

**Environmental Effects: No known significant effects or critical hazards.**

**-- ENVIRONMENTAL TOXICITY --**

Freshwater Fish Toxicity: Not determined.

**-- ENVIRONMENTAL FATE --**

Persistence and Degradability: Not determined

Bioaccumulative Potential: Not determined.

Mobility in Soil: Not determined.

Other Adverse Effects: None identified.

## **SECTION 13 – DISPOSAL INFORMATION**

Do not empty into drains; dispose of this material and its container as non-hazardous waste.

US EPA Disposal as “Specification waste oil”

This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. This material, if discarded, should be considered a European non-hazardous waste in accordance with Directive 91/689/EC.

## **SECTION 14 – TRANSPORTATION INFORMATION**

<b>UN Number</b>	<b>Not regulated.</b>
<b>UN Proper Shipping Name:</b>	<b>Not regulated.</b>
<b>Transport Hazard Class</b>	<b>Not regulated.</b>
<b>Package Group</b>	<b>Not regulated.</b>
<b>Marine Pollutant</b>	<b>Not determined</b>
<b>Special Precautions</b>	<b>None</b>

## **SECTION 15 – REGULATORY INFORMATION**

**-- Global International Chemical Inventories --**

<b>USA</b>	<b>All components of this material are on the US TSCA Inventory or are exempt.</b>
<b>EEC</b>	<b>All components are in compliance with the EC 7<sup>th</sup> Amendment Directive 92/32/EEC.</b>
<b>Canada</b>	<b>All components of this material are DSL listed or are exempt.</b>

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**-- Other U.S. Federal Regulations --**

**EPCRA:** This material contains no extremely hazardous substances.

**SARA 311 Classifications**

<b>Fire Hazard</b>	<b>No</b>
<b>Sudden Release of Pressure Hazard</b>	<b>No</b>
<b>Reactive Hazard</b>	<b>No</b>
<b>Immediate (Acute) Hazard</b>	<b>No</b>
<b>Delayed (Chronic) Hazard</b>	<b>No</b>

**-- State Regulations --**

The following ingredients are cited on the lists below:

California Proposition 65: Not known to contain any substances listed under Proposition 65, known to the state of California to cause cancer, birth defects or other reproductive harm, in concentrations which require a warning under the statute

**--REGULATORY LISTS --**

1 = CA P65 CARC	6 = MI 293
2 = <b>CA P65 REPRO</b>	7 = MN RTK
3 = CA RTK	8 = NJ RTK
4 = <b>IL RTK</b>	9 = <b>PA RTK</b>
5 = LA RTK	10 = RI RTK

Code key: CARC=Carcinogen; REPRO=Reproductive; RTK = Right to Know

**SECTION 16 – OTHER INFORMATION**

**Label text:**

Handling: No special requirements if handled with reasonable care.

First Aid:

Eye: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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Skin: After contact with skin, take off immediately all contaminated clothing, wash immediately with plenty of soap and water.

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately.

Fire: In case of fire use dry chemical, carbon dioxide, foam, steam, or water fog.

Spill or Leak: To clean the floor and all objects contaminated by this material use an inert absorbent material.

**Date Revised: 02, May, 2018**

**Supersedes: None**

**Date Prepared: 03 May 2014**

**The information provided herein is believed to be accurate to the best of the company's knowledge as of the date of its issue. We do not warrant or guarantee the information provided and will not be held liable for any loss or damage from its use.**