

# Mobil Rarus 827

## 1. IDENTIFICATION

**Product Name:** Mobil Rarus 827  
**Product Description:** Synthetic Base Stocks and Additives  
**Intended Use:** Air Compressor Oil  
**Supplier:** Imperial Oil Products Division  
240 4th Avenue  
Calgary, Alberta T2P 3M9 Canada

**Emergency Phone:** 1-800-268-3183  
1-519-339-2145 (Health)  
1-519-339-2145 (Transportation)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

## 3. HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines see Section 15.

### HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: 0  
HMIS Hazard ID: Health: 0 Flammability: 1 Reactivity: 0

Note: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## 4. FIRST AID MEASURES

**Inhalation:** Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**Eye Contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Skin Contact:** Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

**Ingestion:** First aid is normally not required. Seek medical attention if discomfort occurs

## 5. FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

## **FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Smoke, Fume, Aldehydes, Sulphur Oxides, Incomplete combustion products, Oxides of carbon.

## **FLAMMABILITY PROPERTIES**

**Flash Point [Method]:** >220C (428F) [ ASTM D-92]

**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0

**Autoignition Temperature:** N/D

## **6. ACCIDENTAL RELEASE MEASURES**

### **Notification Procedures**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### **SPILL MANAGEMENT**

**Land Spill:** Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

### **ENVIRONMENTAL PRECAUTIONS**

**Large Spills:** Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## **7. HANDLING AND STORAGE**

### **HANDLING**

This material is not intended for use in air compressors for breathing applications. Prevent small spills and leakage to avoid slip hazard.

**Static Accumulator:** This material is a static accumulator.

### **STORAGE**

Do not store in open or unlabelled containers.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure limits/standards for materials that can be formed when handling this product:** When mists / aerosols can occur, the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV, 10 mg/m<sup>3</sup> - ACGIH STEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

### **PERSONAL PROTECTION:**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling

practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: No protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### **ENGINEERING CONTROLS:**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: No special requirements under ordinary conditions of use and with adequate ventilation.

#### **ENVIRONMENTAL CONTROLS**

See Sections 6, 7, 12, 13.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state:</b>	Liquid
<b>Specific gravity:</b>	0.954
<b>Odour/Appearance:</b>	Characteristic odour, amber liquid
<b>Vapour pressure:</b>	<0.013 kPa (0.1mm Hg) @ 20°C
<b>Vapour density (Air=1):</b>	>2
<b>Evaporation rate:</b>	Not determined. (N-Butyl Acetate = 1)
<b>Boiling point:</b>	> 316°C (600°F)
<b>Freezing/melting point:</b>	Not determined.
<b>Viscosity:</b>	107.2 cSt (107.2 mm <sup>2</sup> /sec) at 40°C   10.12 cSt (10.12 mm <sup>2</sup> /sec) at 100°C
<b>pH:</b>	Not applicable
<b>Solubility:</b>	Negligible
<b>Relative Density (@15°C):</b>	0.957
<b>Flash Point [Method]:</b>	>220°C (428°F) [ASTM D-92]
<b>Flammable Limits:</b>	LEL: 0.9 UEL: 7.0 (Approximate volume % in air)
<b>Auto Ignition Temperature:</b>	Not determined.
<b>Boiling Point/Range:</b>	>316°C (600°F)

Log Pow (n-Octanol/Water Partition Coefficient): N/D  
Oxidizing properties: See Sections 3, 15, 16.  
Pour Point: -36 °C (-33 °F)

## 10. STABILITY AND REACTIVITY DATA

**Stability:** Material is stable under normal conditions. Hazardous polymerization will not occur.  
**Incompatible materials & conditions to avoid:** Strong oxidizers. Excessive heat. High energy sources of ignition  
**Hazardous decomposition:** Material does not decompose at ambient temperatures.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:**  
**Inhalation:** Toxicity (Rat): LC50 > 5000 mg/m<sup>3</sup>  
Minimally Toxic. Based on test data for structurally similar materials.  
Irritation: No end point data.  
Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.  
**Eye Contact:** Irritation (Rabbit): Data available.  
May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.  
**Ingestion:** Toxicity (Rat): LD50 > 5000 mg/kg  
Minimally Toxic. Based on test data for structurally similar materials.  
**Skin Contact:** Toxicity (Rabbit): LD50 > 5000 mg/kg  
Minimally Toxic. Based on test data for structurally similar materials.  
Irritation (Rabbit): Data available.  
May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

**CHRONIC/OTHER EFFECTS** Contains:  
Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans. Additional information is available by request.  
CMR Status: None.

## 12. ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

### ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.  
Material -- Not expected to demonstrate chronic toxicity to aquatic organisms.

## 13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

### DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration

at very high temperatures to prevent formation of undesirable combustion products.

### **Regulatory Disposal Information**

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## **14. TRANSPORT INFORMATION**

LAND (TDG) : Not Regulated for Land Transport

LAND (DOT) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

## **15. REGULATORY INFORMATION**

WHMIS Classification: Not controlled.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the (M)SDS contains all the information required by the Controlled Products Regulations.

CEPA: All components of this material are either on the Canadian Domestic Substances List (DSL), exempt, or have been notified under CEPA.

National Chemical Inventory Listing: AICS, IECSC, DSL, KECI, PICCS, TSCA

Special Cases: ELINCS - Restrictions Apply

The Following Ingredients are Cited on the Lists Below:

Chemical Name: DIPHENYLAMINE

CAS Number: 122-39-4

List Citations: TSCA 4

## **9. OTHER INFORMATION**

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## **10. PREPARATION**

Date Prepared:

August 25, 2009

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