

# Safety Data Sheet



Revision Date: 2016-08-22

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### RB PAO 4 cSt

Product Name RB PAO 4 cSt  
Product Use Synthetic Lubricants  
Supplier RB Products Inc.  
740 Bradfield Road  
Houston TX 77060  
Phone: 1 (281) 992-3500  
Fax: (281) 992-7525

### EMERGENCY INFORMATION

**Transportation Emergency Phone** (703) 527-3887 (CHEMTREC)

**Product Technical Information** (281) 992-3500

**Website** <http://www.rbproductsinc.com>

**Other product information** [sales@rbproductsinc.com](mailto:sales@rbproductsinc.com)

## SECTION 2: HAZARDS IDENTIFICATION

### CLASSIFICATION

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Aspiration Hazard, Category 1; H304 May be fatal if swallowed and enters airways.

**Signal Word:** Danger

### PICTOGRAM



### EMERGENCY OVERVIEW

**Form:** Liquid

**Physical State:** Liquid

**Color:** Clear, colorless

**Odor:** Odorless

**OSHA HAZARDS:** Aspiration Hazard

### PRECAUTIONARY STATEMENTS

**Response:** P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331: Do NOT induce vomiting.

**Storage:** P405: Store locked up.

**Disposal:** P501: Dispose of contents/container to an approved waste disposal plant.

### CARCINOGENICITY:

**IARC:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# Safety Data Sheet



Revision Date: 2016-08-22

**NTP:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** Polyalphalolefin, PAO

**Molecular formula:** UVCB

Component	CAS#	Weight%
1-Decene, homopolymer, hydrogenated	68037-01-4	100

## SECTION 4: FIRST AID MEASURES

<b>General Advice</b>	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
<b>If inhaled</b>	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
<b>In case of skin contact</b>	Rinse well with water. If on clothes, remove clothes. If skin irritation persists, call a physician.
<b>In case of eye contact</b>	Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
<b>If swallowed</b>	Keep respiratory tract clear. Do NOT induce vomiting. If symptoms persist, call a physician.

## SECTION 5: FIREFIGHTING MEASURES

<b>Flash Point:</b>	219°C (426°F), Method: Cleveland Open Cup.
<b>Autoignition temperature:</b>	343°C (649°F)
<b>Unsuitable Extinguishing Media:</b>	High volume water jet. Wear self contained breathing apparatus for the firefighting if necessary.
<b>Fire-Fighters:</b>	
<b>Further Information:</b>	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Fire and Explosion Protection:</b>	Normal measures for preventive fire protection.
<b>Hazard Decomposition Products:</b>	Carbon Oxides.

## SECTION 6: ACCIDENTAL RELEASE MEASURE

<b>Personal Precautions:</b>	Use personal protective equipment. Ensure adequate ventilation.
<b>Environmental Precautions:</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
<b>Methods for Cleaning Up:</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

### HANDLING

**Advice on Safe Handling** Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse

# Safety Data Sheet



Revision Date: 2016-08-22

water in accordance with local and national regulations.  
Normal measure for preventive fire protection.

## Fire and Explosion

### STORAGE

#### Requirements for Storage Areas and Containers:

Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations I working materials must comply with the technological safety standards.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING MEASURES

Consider the potential hazards of this material {see Section 2}, applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory Protection:** Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Full-Face Supplied-Air Respirator. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

**Hand Protection:** The suitability for a specific workplace-should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye Protection:** Eye wash bottle with pure water. Tightly fitting safety goggles.

**Skin and Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: protective suit, safety shoes.

**Hygiene Measure:** When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

<b>Form</b>	Liquid
<b>Physical state</b>	Liquid
<b>Color</b>	Colorless, clear
<b>Odor</b>	Odorless

### SAFETY DATA

<b>Flash Point</b>	219°C (426°F), Method: Cleveland Open Cup
<b>Autoignition Temperature</b>	343°C (649°F)

### THERMAL DECOMPOSITION

<b>Molecular Formula</b>	UVCB
<b>Boiling point/boiling range</b>	>414°C (>777°F)
<b>Vapor Pressure</b>	1.70 MMHG at 177°C (351°F)

# Safety Data Sheet



Revision Date: 2016-08-22

**Relative Density** 0.82, 15.6°C (60.1°F)  
**Viscosity, Kinematic** 16 cSt at 37.8°C (40°F)

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### POSSIBILITY OF HAZARDOUS REACTIONS

**Conditions to avoid** No Data Available.  
**Other data** No decomposition if stored and applied as directed.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity** LD50: >5,000 mg/kg  
Species: Rat  
Information given is based on data obtained from similar substances.

**Acute Inhalation Toxicity** LCSO: >5.2 mg/l  
Exposure time: 4h  
Species: Rat  
Test Atmosphere: Dust/Mist  
Information given is based on data obtained from similar substances.

**Acute Dermal Toxicity** LD50: >2000 mg/kg  
Species: Rat  
Information given is based on data obtained from similar substances.

**Skin Irritation** No Skin Irritation  
Information given is based on data obtained from similar substances.

**Eye Irritation** No Eye Irritation  
Information given is based on data obtained from similar substances.

**Sensitization** Did not cause sensitization on laboratory animals.  
Information given is based on data obtained from similar substances.

**Aspiration Toxicity** May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.  
Information given is based on data obtained from similar substances.

**CMR effects**  
Carcinogenicity: Not classifiable as a human carcinogen.  
Mutagenicity: Animal testing did not show any mutagenic effects.  
Teratogenicity: Did not show teratogenic effects in animal experiments.  
Reproductive toxicity: No toxicity to reproduction

**Further information** Solvents may decrease the skin.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICITY EFFECTS

**Toxicity to Fish** LL50: > 1,000 mg/l  
Exposure time: 96 h  
Species: Salmo gairdneri (rainbow trout)  
LC50: > 750 mg/l  
Exposure time: 96h  
Species: Pimephales promelas (Fathead minnow)

# Safety Data Sheet



Revision Date: 2016-08-22

Information given is based on data obtained from similar substances.

## **Toxicity to Daphnia and Other**

**Aquatic Invertebrates** EL50: > 190 mg/1  
Exposure time: 48 h

Species: Daphnia magna (Water flea)

Information given is based on data obtained from similar substances.

**Toxicity to Algae** NOEC: > 1,000 mg/1

Exposure time: 72 h

Species: Selenastrum capricornutum (Fresh water algae)

Static test method: OECD Test Guideline 201.

Information given is based on data obtained from similar substances.

## **BIOACCUMULATION**

1-Decene, homopolymer, hydrogenated: This material is not expected to bioaccumulate.

## **BIODEGRADABILITY**

1-Decene, homopolymer, hydrogenated: Expected to be inherently biodegradable.

## **ECOTOXICOLOGY ASSESSMENT**

### **Results of PBT assessment**

1-Decene, homopolymer, hydrogenated Non-classified PBT substance, non-classified vPvB substance.

Additional ecological information No data available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined--by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

**Product:** Do not dispose into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

**Contaminated packaging:** Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

## **SECTION 14: TRANSPORT INFORMATION**

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

### **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOOD FOR TRANSPORTATION BY THIS AGENCY.

### **IMO /IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

# Safety Data Sheet



Revision Date: 2016-08-22

## **IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

## **ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

## **RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

## **ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

## **SECTION 15: REGULATORY INFORMATION**

### **NATIONAL LEGISLATION**

**SARA 311/312 Hazards:** No SARA Hazards

### **EPCRA – EMERGENCY PLANNING COMMUNITY RIGHT-TO-KNOW**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### **SARA 302 Reportable Quantity**

This material does not contain any components with a SARA 302 RQ.

#### **SARA 302 Threshold Planning Quantity**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

#### **SARA 313 Ingredients**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **CLEAN AIR ACT**

#### **Ozone-Depletion**

This product neither contains, nor was manufactured with a Class I or Potential Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

*This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).*

*This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).*

*This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).*

### **US STATE REGULATIONS**

#### Pennsylvania Right To Know

No components are subject to the Pennsylvania Right to Know Act.

#### New Jersey Right To Know

No components are subject to the New Jersey Right to Know Act.

#### California Prop. 65 Ingredients

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

# Safety Data Sheet



Revision Date: 2016-08-22

## NOTIFICATION STATUS

**Europe REACH:** This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH).

**United States of America TSCA:** On TSCA Inventory

**Canada DSL:** All components of this product are on the Canadian DSL.

**Australia AICS:** On the inventory, or in compliance with the inventory

**New Zealand NZioC:** On the inventory, or in compliance with the inventory

**Japan ENCS:** On the inventory, or in compliance with the inventory

**Korea KECI:** On the inventory, or in compliance with the inventory

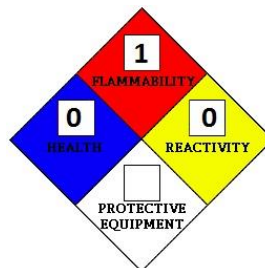
**Philippines PICCS:** On the inventory, or in compliance with the inventory

**China IECSC:** On the inventory, or in compliance with the inventory

## SECTION 16: OTHER INFORMATION

### Hazardous Materials Information System (USA) National Fire Protection Association (USA)

Health Hazard	0
Fire Hazard	1
Reactivity Hazard	0



The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Notice: This Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product. This Safety Data Sheet conforms to the requirements of ANS1 Z400 1.