

Safety Data Sheet



Revision Date: 2022-01-01

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: +1 (281) 992-7525

EMERGENCY INFORMATION

Transportation Emergency Phone +1 (703) 527-3887 (CHEMTREC)
Product Technical Information +1 (281) 992-3500
Website www.rbproductsinc.com
Other product information sales@rbproductsinc.com; orders@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. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this products.

PICTOGRAM



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

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.

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: Polyalphaolefin, PAO; **Molecular formula:** UVCB;

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Chemical name: Dodec-1-ene, homopolymer, hydrogenated

Component	CAS#	Weight%
Dodec-1-ene, homopolymer, hydrogenated	151006-63-2	100

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 and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

General Advice	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.
If inhaled	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	Rinse well with water. If on clothes, remove clothes. If skin irritation persists, call a physician.
In case of eye contact	Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	Keep respiratory tract clear. Do NOT induce vomiting. If symptoms persist, call a physician.

SECTION 5: FIREFIGHTING MEASURES

Flash Point:	> 410°F, Method: Cleveland Open Cup.
Autoignition temperature:	649°F
Unsuitable Extinguishing Media:	High volume water jet. Wear self-contained breathing apparatus for the firefighting if necessary.
Fire-Fighters:	
Further Information:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire and Explosion Protection:	Normal measures for preventive fire protection.
Hazard Decomposition Products:	Carbon Oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURE

Personal Precautions:	Use personal protective equipment. Ensure adequate ventilation.
Environmental Precautions:	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.
Methods for Cleaning Up:	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 water in accordance with local and national regulations.
Fire and Explosion	Normal measure for preventive fire protection.

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.
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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

Form	Liquid
Physical state	Liquid
Color	Colorless, clear
Odor	Odorless

SAFETY DATA

Flash Point	> 410°F, Method: Cleveland Open Cup
Autoignition Temperature	649°F)

THERMAL DECOMPOSITION

Molecular Formula	UVCB
Boiling point/boiling range	777 - 1094°F
Vapor Pressure	< 0.073 kPa (< 0.55 mm Hg) [room temperature]
Relative Density	0.82, 15.6°C (60.1°F)
Viscosity, Kinematic	60 mm ² /s (60 cSt) - at room temperature; 25 mm ² /s (21 cst) - at 40°C

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

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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.

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 degrease the skin.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EFFECTS

Product/ingredient name	Result	Species	Exposure
Dodec-1-ene, homopolymer, hydrogenated (similar material)	EL50 > 1000 mg/l WAF	Daphnia	48 hours
	EX50 420 mg/l	Micro-organism	28 days
	LL50 > 1000 mg/l WAF	Fish	96 hours
	NOELR 1000 mg/l WAF	Aquatic Plants	72 hours
	NOELR 125 mg/l WAF	Daphnia	21 days
	NOEC 180 mg/l	Micro-organism	28 days
Product/ingredient name	LogP _{ow}	BCF	Potential
Dodec-1-ene, homopolymer, hydrogenated	> 10	-	Low

Soil/water partition coefficient (K_{oc}): > 6.2

Mobility: This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility. This product is not likely to volatilize rapidly into the air because of its low vapor pressure.

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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 ditched 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.

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.

Proper shipping name: Polyolefin (molecular weight 300+)

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.

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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.

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

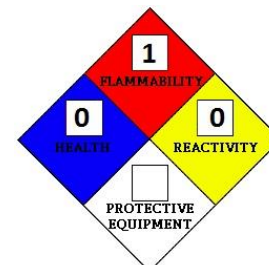
SECTION 16: OTHER INFORMATION

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

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.

Health Hazard	0
Fire Hazard	1
Reactivity Hazard	0



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 ANSI Z400 1.