

Safety Data Sheet



Revision Date: 2016-08-22

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

RB PAO 8 cSt HVI

Product Name RB PAO 8 cSt HVI
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

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.

NOT A HAZARDOUS SUBSTANCE OR MIXTURE.

Emergency Overview

Form: Liquid
Physical State: Liquid
Color: Colorless
Odor: Odorless
OSHA HAZARDS: No OSHA Hazards

LABELING

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Additional labeling: The following of the mixture consists of ingredients with unknown acute toxicity: 0%.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Polyalphalolefin, PAO 8 Blend
Molecular formula: UVCB
No hazardous ingredients.

SECTION 4: FIRST AID MEASURES

General Advice No hazards which require special first aid measures. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this material safety data sheet to the doctor in attendance.

If inhaled Move to fresh air in case of accidental inhalation of vapors.
Consult a physician after significant exposure.

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In case of skin contact	Remove contaminated clothing. If irritation develops, get medical attention. Wash off immediately with plenty of water.
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	If swallowed, DO NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

SECTION 5: FIREFIGHTING MEASURES

Flash Point:	246-271°C (475-520°F), Method: Cleveland Open Cup.
Autoignition temperature:	351°C (664°F)
Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific Hazards During Fire Fighting:	Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. In the event of fire, wear self-contained breathing apparatus.
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. Evacuate personnel to safe areas. Material can create slippery conditions.
Environmental Precautions:	No special environmental precautions required.
Methods for Cleaning Up:	Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.
Additional advice:	No conditions to be specifically mentioned.
Method of cleaning up:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING

Advice on Safe Handling	For personal protection see section 8, Smoking, eating and drinking should be prohibited in the application area. Do not breathe vapor/dust.
Advice on Protection against 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

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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.
- 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. Lightweight protective clothing.
- Hygiene Measure:** When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
- Protective Measures:** Wear suitable protective equipment. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Form	Liquid
Physical state	Liquid
Color	Colorless
Odor	Odorless

SAFETY DATA

Flash Point	246-271°C (475-520°F), Method: Cleveland Open Cup
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Oxidizing Properties	None
Autoignition Temperature	351°C (664°F)

THERMAL DECOMPOSITION

Molecular Formula	UVCB
Molecular Weight	Not Applicable
pH	Not Applicable
Boiling point/boiling range	260°C (500°F)
Vapor Pressure	No data available.
Density	6.87-6.96 L/G
Water Solubility	Soluble in hydrocarbon solvents; insoluble in water.
Viscosity, Kinematic	46.2 cSt At 40°C (104°F) Method: ASTM D-445
Relative Vapor Density	10 (Air = 1.0)
Evaporation Rate	No Data Available

SECTION 10: STABILITY AND REACTIVITY

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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.

Materials to avoid May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION

Products Carbon Oxides

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 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.

Repeated Dose Toxicity Species: rat, Male and female

Sex: Male and female

Application Route: oral gavage

Dose: 0, 1000 mg/kg/day

Exposure time: 28 days

NOEL: 1,000 mg/kg

Method: OECD Test Guideline 407

Information given is based on data obtained from similar substances.

Aspiration Toxicity No Aspiration Toxicity Classification.

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

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EFFECTS

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Toxicity to Fish

LL50: > 1,000 mg/1
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
Static test: Test substance: no
Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.

Toxicity to Daphnia and Other

Aquatic Invertebrates

EL50: > 1,000 mg/1
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Static test: Test substance: no
Method: OECD Test Guideline 202
Information given is based on data obtained from similar substances.

Toxicity to Algae

NOEC: > 1,000 mg/1
Exposure time: 96 h
Species: Selenastrum capricornutum (algae)
Method: OECD Test Guideline 201
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates

NOEC: 125 mg/1
Exposure time: 21 d

(Chronic toxicity)

Species: Daphnia magna (Water flea) Test substance: no
The product has low solubility in the test medium. An aqueous dispersion was tested.
Information given is based on data obtained from similar substances.

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Biodegradability: This Material is not expected to be readily biodegradable. Expected to be ultimately biodegradable.

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	Dispose of wastes in an approved waste disposal facility.
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).

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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.

SECTION 15: REGULATORY INFORMATION

NATIONAL LEGISLATION

Chemical Safety Assessment:

Ingredients: dodec-1-ene

A chemical Safety Assessment 203-968-4 has been carried out for this substance.

Major Accident Hazard: 96/82/EC

Legislation: Directive 96/82/EC does not apply.

Water contaminating class: WGK 1 slightly water endangering.
(Germany)

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 IECS: On the inventory, or in compliance with the inventory

SECTION 16: OTHER INFORMATION

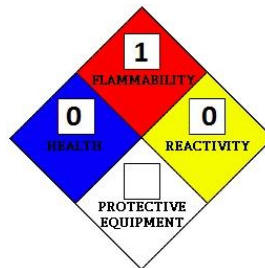
Hazardous Materials Information System (USA) National Fire Protection Association (USA)

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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.