# SAFETY DATA SHEET



### Section 1. Identification

Product name Optigear Synthetic RO 150

**SDS** # 465036

**Code** 465036-DE03

Relevant identified uses of the substance or mixture and uses advised against

Product use Gear lubricant

For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

Supplier BP Lubricants USA Inc.

1500 Valley Road Wayne, NJ 07470

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**EMERGENCY HEALTH** 

**INFORMATION:** 

+1-800-447-8735

EMERGENCY SPILL +1-800-424-9300 (CHEMTREC USA)

INFORMATION: +1-703-527-3887 (CHEMTREC outside the US)

### Section 2. Hazards identification

OSHA/HCS status This material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

Classification of the

substance or mixture

Not classified.

**GHS label elements** 

Signal word No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements** 

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.Hazards not otherwiseDefatting to the skin.

classified

Section 3. Composition/information on ingredients

Substance/mixture Mixture

Synthetic lubricant and additives.

There are no 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.

Occupational exposure limits, if available, are listed in Section 8.

Product nameOptigear Synthetic RO 150Product code465036-DE03Page: 1/9

### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and

remove any contact lenses. Get medical attention.

Skin contact Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. If skin irritation or rash occurs:

Get medical advice/attention.

**Inhalation** If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire,

symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician**Treatment should in general be symptomatic and directed to relieving any effects.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

In a fire or if heated, a pressure increase will occur and the container may burst.

**Specific treatments** No specific treatment.

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing Do

media

Do not use water jet.

### Specific hazards arising

from the chemical

Hazardous combustion products

Combustion products may include the following:

carbon oxides (CO, CO $_2$ ) (carbon monoxide, carbon dioxide) sulfur oxides (SO, SO $_2$  etc.) nitrogen oxides (NO, NO $_2$  etc.)

Special protective actions

for fire-fighters

Special protective equipment for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA)

and full turnout gear.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment. Floors may be slippery; use care to avoid falling.

Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

Product nameOptigear Synthetic RO 150Product code465036-DE03Page: 2/9

### Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Absorb with an inert material

and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Prevent entry into sewers,

water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed

waste disposal contractor.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Advice on general occupational hygiene

Put on appropriate personal protective equipment (see Section 8).

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. See also Section 8 for additional

information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Not suitable Prolonged exposure to elevated temperature

## Section 8. Exposure controls/personal protection

### **Control parameters**

#### Occupational exposure limits

This product does not have any assigned OELs.

#### **Biological exposure indices**

No exposure indices known.

# Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

Product nameOptigear Synthetic RO 150Product code465036-DE03Page: 3/9Version 9.02Date of issue 05/13/2024.Format USLanguage ENGLISH

### Section 8. Exposure controls/personal protection

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Appropriate

techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers

are close to the workstation location.

Safety glasses with side shields.

Eye/face protection

Skin protection

**Hand protection** Wear protective gloves if prolonged or repeated contact is likely. Wear chemical

resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/

manufacturer and with a full assessment of the working conditions.

**Body protection** Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical

suits and boots will be required.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m3), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter

(for oil mists less than 125 mg/m3).

Where organic vapours are a potential hazard during metalworking operations, a

combination particulate and organic vapour filter may be necessary.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer

and with a full assessment of the working conditions.

# Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

Physical state Liquid.

ColorBlue./Green. [Dark]OdorNot available.Odor thresholdNot available.pHNot applicable.

Melting point/freezing point
Boiling point, initial boiling
point, and boiling range

Not available.
Not available.

Flash point Closed cup: 197°C (386.6°F) [Estimated. Based on Lubricants - Base Oils]

Pour point <-36 °C

Evaporation rate Not available.

Flammability Not applicable. Based on - Physical state

Product nameOptigear Synthetic RO 150Product code465036-DE03Page: 4/9Version 9.02Date of issue 05/13/2024.Format USLanguage ENGLISH

# Section 9. Physical and chemical properties

Lower and upper explosion

limit/flammability limit

Not available.

Vapor pressure <0.01 kPa
Relative vapor density Not available.

**Density** <1000 kg/m³ (<1 g/cm³) at 15°C

Solubility(ies)

Media	Result
water	Not soluble

Partition coefficient: noctanol/water Not applicable.

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
pec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159
Benzene, mono-C10-13-alkyl derivs., distn. residues	258	496.4	ASTM E 659-78
Polybutene (Isobutylene/butene copolymer)	215	419	EU A.15
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159

**Decomposition temperature** 

Not available.

**Viscosity** 

Kinematic: 140 to 160 mm<sup>2</sup>/s (140 to 160 cSt) at 40°C

Kinematic: 17 to 19 mm<sup>2</sup>/s (17 to 19 cSt) at 100°C (DIN EN ISO 3104)

Particle characteristics

Median particle size

Not applicable.

## Section 10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame).

**Incompatible materials** Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **Section 11. Toxicological information**

Information on toxicological effects

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact

No known significant effects or critical hazards.

Skin contact

No known significant effects or critical hazards.

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

Product name Optigear Synthetic RO 150 Product code 465036-DE03 Page: 5/9

## Section 11. Toxicological information

**Ingestion** No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation dryness cracking

InhalationNo specific data.IngestionNo specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

# Section 12. Ecological information

### **Toxicity**

No testing has been performed by the manufacturer.

### Persistence and degradability

Not expected to be rapidly degradable.

### **Bioaccumulative potential**

Not available.

**Mobility in soil** 

Soil/water partition Not available.

coefficient (Koc)

Mobility Liquid. insoluble in water.

Other adverse effects No known significant effects or critical hazards.

Product name Optigear Synthetic RO 150 Product code 465036-DE03 Page: 6/9

Version 9.02 Date of issue 05/13/2024. Format US Language ENGLISH

## Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user

Not available.

Transport in bulk according

Not available.

to IMO instruments

# Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b)

All components are active or exempted.

**SARA 302/304** 

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification Not applicable.

**SARA 313** 

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated

thresholds.

Supplier notification This product does not contain any hazardous ingredients at or above regulated

thresholds.

State regulations

Massachusetts None of the components are listed.

New Jersey The following components are listed: MINERAL OIL (UNTREATED and MILDLY

TREATED)

**Pennsylvania** None of the components are listed.

California Prop. 65

Product name Optigear Synthetic RO 150 Product code 465036-DE03 Page: 7/9

### Section 15. Regulatory information

⚠ WARNING: This product can expose you to chemicals including Ethylene oxide and Benzene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Propylene oxide, 1.4-Dioxane, Naphthalene and Ethylbenzene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### Other regulations

Australia inventory (AIIC) All components are listed or exempted.

**Canada inventory** At least one component is not listed in DSL but all such components are listed in NDSL.

China inventory (IECSC) All components are listed or exempted. Japan inventory (CSCL) At least one component is not listed. **Korea inventory (KECI)** All components are listed or exempted. **Philippines inventory** All components are listed or exempted.

(PICCS)

**Taiwan Chemical** 

(TCSI)

**Substances Inventory** 

**REACH Status** The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

All components are listed or exempted.

### Section 16. Other information

#### National Fire Protection Association (U.S.A.)



#### **History**

Date of issue/Date of

revision

Date of previous issue

Prepared by

**Product Stewardship** 

Key to abbreviations ACGIH = American Conference of Industrial Hygienists

05/13/2024.

04/10/2024.

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS Number = Chemical Abstracts Service Registry Number

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet STEL = Short term exposure limit TWA = Time weighted average

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United

Nations Committee of Experts on the Transport of Dangerous Goods.

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0,

64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

Indicates information that has changed from previously issued version.

Notice to reader

**Product code** 465036-DE03 Product name Optigear Synthetic RO 150 Page: 8/9 Version 9.02 Date of issue 05/13/2024. Format US Language ENGLISH

### Section 16. Other information

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

**Product code** Product name 465036-DE03 Page: 9/9 Optigear Synthetic RO 150 Format US Language ENGLISH