

Material Safety Data Sheet



CN34947

1. Product and company identification

Product name BOT 190 M 1
MSDS # 452256
Code 452256-DE01
Product use Gear lubricant
For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Manufacturer BP Lubricants USA, Inc
1500 Valley Road
Wayne, NJ USA
07470
Supplier Wakefield Canada, Limited
3620 Lakeshore Blvd West
Toronto, Ontario, Canada
M8W 1P2
Phone Number - 416-252-5511
Fax Number - 416-252-7315

BP Lubricants USA, Inc
1500 Valley Road
Wayne, NJ USA
07470
Phone Number - 973-633-2296
Fax Number - 973-633-7475
EMERGENCY HEALTH INFORMATION: 1 (800) 447-8735
Outside the US: +1 703-527-3887 (CHEMTREC)
EMERGENCY SPILL INFORMATION: 1 (800) 424-9300
CHEMTREC (USA)
OTHER PRODUCT INFORMATION 1 (866) 4 BP - MSDS
(866-427-6737 Toll Free - North America)
email: bpcares@bp.com

2. Hazards identification

Physical state Liquid.
Color Yellow.
Emergency overview WARNING !
CAUSES EYE IRRITATION.
MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.
Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Routes of entry Dermal contact. Eye contact. Inhalation.
Potential health effects
Eyes Causes eye irritation.
Skin May cause skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

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irritation may cause respiratory tract irritation.

Ingestion Ingestion may cause gastrointestinal irritation and diarrhea.

See toxicological information (Section 11)

3. Composition/information on ingredients

Synthetic base stock. Proprietary performance additives.

Ingredient name	CAS #	%
Dimethyl octadecylphosphonate	25371-54-4	1 - 5
Polysulfides, di-tert-Bu	68937-96-2	1 - 5
Base oil - highly refined	Varies	1 - 5
amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulfide (P2S5) and propylene oxide	91745-46-9	1 - 5
Base oil - highly refined	Varies	1 - 5

4. First aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately. Get medical attention if symptoms occur.
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire-fighting measures

Flash point	Open cup: 204°C (399.2°F) [Cleveland.]
Fire/explosion hazards	In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	Do not use water jet.
Fire-fighting procedures	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	Combustion products may include the following: phosphorus oxides carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
Protective clothing (fire)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods for cleaning up

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Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see Section 8). Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Storage

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. 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.

Other information

Sulfur compounds in this material may decompose when heated to release hydrogen sulfide gas which may accumulate to potentially lethal concentrations in enclosed air spaces. Vapor concentrations of hydrogen sulfide above 50 ppm, or prolonged exposure at lower concentrations, may saturate human odor perceptions so that the smell of gas may not be apparent. Exposure to concentrations of hydrogen sulfide vapor above 500 ppm may cause rapid death. Do not rely on the sense of smell to detect hydrogen sulfide.

8. Exposure controls/personal protection

Occupational exposure limits**Ingredient name****Occupational exposure limits****Base oil - highly refined****CA Alberta Provincial (Canada).**

15 min OEL: 10 mg/m³ 15 minutes. Issued/Revised: 7/2009 Form: Mist

8 hrs OEL: 5 mg/m³ 8 hours. Issued/Revised: 4/2004 Form: Mist

CA Quebec Provincial (Canada).

STEV: 10 mg/m³ 15 minutes. Issued/Revised: 1/2000 Form: mist

TWAEV: 5 mg/m³ 8 hours. Issued/Revised: 1/2000 Form: mist

CA Ontario Provincial (Canada).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 1/1992 Form: mist

STEL: 10 mg/m³ 15 minutes. Issued/Revised: 1/1992 Form: mist

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While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Control Measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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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.

Personal protection

Eyes

Avoid contact with eyes. Safety glasses with side shields or chemical goggles.

Skin and body

Avoid contact with skin and clothing. Wear suitable protective clothing.

Respiratory

Use adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.

Hands

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.

Consult your supervisor or Standard Operating Procedure (S.O.P) for special handling instructions.

9. Physical and chemical properties

Physical state

Liquid.

Color

Yellow.

Odor

Oily

Odor threshold

Not available.

Flash point

Open cup: 204°C (399.2°F) [Cleveland.]

Specific gravity

Not available.

Density

880.4 kg/m³ (0.88 g/cm³) at 15°C

pH

Not available.

Viscosity

Kinematic: 58.6 mm²/s (58.6 cSt) at 40°C
Kinematic: 11.5 mm²/s (11.5 cSt) at 100°C

Boiling point / Range

Not available.

Melting point / Range

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Evaporation rate

Not available.

Solubility

insoluble in water.

LogK_{ow}

>3

10. Stability and reactivity

Stability and reactivity

The product is stable.

Possibility of hazardous reactions

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

Conditions to avoid

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

Incompatibility with various substances

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

Hydrogen Sulfide (H₂S)

Hazardous polymerization

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

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11. Toxicological information

Other information Contains low concentration of Olefinsulfide and phosphoric acid ester amine salt. Based on animal studies at high concentration may cause allergic skin reactions with repeated exposure.

Potential chronic health effects

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

Reproductive effects No known significant effects or critical hazards.

Medical conditions aggravated by over-exposure None known.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Persistence/degradability Not expected to be rapidly degradable.

Mobility Spillages may penetrate the soil causing ground water contamination.

Bioaccumulative potential This product is not expected to bioaccumulate through food chains in the environment.

Other ecological information Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. Disposal considerations

Waste information The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	-
TDG Classification	Not regulated.	-	-	-	-

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Regulatory Information	UN number	Proper shipping name	Class	Packing group	Additional information
IMDG Classification	UN3082	Environmentally hazardous substance, liquid, n.o.s. ((Z)-octadec-9-enylamine). Marine pollutant	9	III	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules (EmS)</u> F-A, S-F
IATA/ICAO Classification	UN3082	Environmentally hazardous substance, liquid, n.o.s. ((Z)-octadec-9-enylamine)	9	III	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

15. Regulatory information

WHMIS (Canada) Class D-2B: Material causing other toxic effects (Toxic).

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

Other regulations

Canada inventory	All components are listed or exempted.
United States Inventory (TSCA 8b)	All components are listed or exempted.
REACH Status	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.
Australia Inventory (AICS)	All components are listed or exempted.
China Inventory (IECSC)	Not determined.
Japan Inventory (ENCS)	All components are listed or exempted.
Korea Inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.

16. Other information

Label requirements WARNING !
CAUSES EYE IRRITATION.
MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.

History

Date of issue 04/18/2014.
Date of previous issue No previous validation.
Prepared by Product Stewardship

☒ Indicates information that has changed from previously issued version.

Notice to reader

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

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document is the most current available. Alteration of this document is strictly prohibited.