SAFETY DATA SHEET Castrol

Optigear BM 150

Section 1. Identification		
Product name	Optigear BM 150	
SDS no.	450751	
Code	450751-FR01	
Relevant identified uses of	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	Castrol BP Petco 9th Floor – Times Square building 57-69F Dong Khoi Street District 1, Ho Chi Minh City Vietnam Tel: 84-8-38219596 / 38219153 Fax: 84-8-38219603 / 38219152	
EMERGENCY SPILL INFORMATION:	Carechem: +65 3158 1074 (24/7)	

Section 2. Hazards identification

Classification of the substance or mixture	SKIN IRRITATION - Category 3 SKIN SENSITISATION - Category 1 AQUATIC TOXICITY (ACUTE) - Category 3 AQUATIC TOXICITY (CHRONIC) - Category 3
GHS label elements	
Hazard pictograms	
Signal word	Warning
Hazard statements	H316 - Causes mild skin irritation.
	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	P280 - Wear protective gloves.
	P273 - Avoid release to the environment.
	P261 - Avoid breathing vapour. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	▶ 362 + P364 - Take off contaminated clothing and wash it before reuse.
	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical attention.

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Section 2. Hazards identification

Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Routes of entry Other hazards which do not result in classification

Dermal contact. Eye contact. Inhalation.

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Highly refined mineral oil and additives.

Ingredient name	CAS number	%
D istillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	≥25 - ≤50
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	≥25 - ≤50
Residual oils (petroleum), solvent-dewaxed	64742-62-7	≤10
Residual oils (petroleum), hydrotreated	64742-57-0	≤10
Zinc dialkyl dithiophosphate	68457-79-4	≤2.4
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	Proprietary	≤1.9
maleic anhydride	108-31-6	<0.1

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 or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessa	ry 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.
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.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. In the event of any complaints or symptoms, avoid further exposure. Get medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse health effects persist or are severe.

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 effect	
	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.	
Specific treatments	No specific treatment.	

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Section 4. First aid measures

Protection of first-aiders	No action shall be taken involving any personal risk of
	may be dangerous to the person providing aid to give

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	Use foam or all-purpose dry chemical to extinguish.
Unsuitable extinguishing media	Do not use water jet.
Specific hazards arising from the chemical	Swarf fires - Neat metal working oils may fume, thermally decompose or ignite if they come into contact with red hot swarf. To minimise the generation of red hot swarf ensure that a sufficient flow of oil is correctly directed to the cutting edge of the tool to flood it throughout cutting operations. As an additional precaution swarf should be regularly cleared from the immediate area to prevent the risk of fire. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects.
Hazardous thermal decomposition products	Combustion products may include the following: metal oxide/oxides carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO ₂ etc.)
Special protective actions 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.
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental release measures

Personal precautions, protectiv	e equipment and emergency procedures
For non-emergency personnel	Contact 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilt 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 and material for containment and cleaning up

Small spillStop 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.

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Section 6. Accidental release measures

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilt material and runoff with soil and surface waterways. Concentrations of mist, fumes and vapours in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid, as can bacteria, and as a result may induce allergic and other skin reactions, especially if personal hygiene is inadequate.
Advice on general occupational hygiene	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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name			Exposu	ire limits	
■istillates (petroleum), hydrotreated heavy paraffinic Distillates (petroleum), solvent-dewaxed heavy paraffinic			TWA: 10/2002 STEL:	y of Health (Viet N 5 mg/m ³ 8 hours. Is 2 Form: Mist 10 mg/m ³ 15 minu d: 10/2002 Form: M	ssued/Revised: tes. lssued/
		Ministry of Health (Viet Nam). TWA: 5 mg/m ³ 8 hours. Issued/Revi 10/2002 Form: Mist STEL: 10 mg/m ³ 15 minutes. Issued Revised: 10/2002 Form: Mist		ssued/Revised: tes. lssued/	
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Section 8. Exposure controls/personal protection

Residual oils (petroleum), solvent-dewaxed	Ministry of Health (Viet Nam). TWA: 5 mg/m ³ 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 10/2002 Form: Mist
Residual oils (petroleum), hydrotreated	Ministry of Health (Viet Nam). TWA: 5 mg/m ³ 8 hours. Issued/Revised: 10/2002 Form: Mist STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 10/2002 Form: Mist
maleic anhydride	ACGIH TLV (United States). Skin sensitiser. Inhalation sensitiser. TWA: 0.01 mg/m ³ 8 hours. Issued/Revised: 12/2010 Form: Inhalable fraction and vapor

Recommended monitoring procedures	If this product contains ingrec atmosphere or biological mor of the ventilation or other con protective equipment. Refere standards. Reference to nati determination of hazardous s	hitoring may be required trol measures and/or the ence should be made to onal guidance document	to determine to necessity to u appropriate most ts for methods	he effectiveness use respiratory onitoring
Appropriate engineering controls	All activities involving chemic ensure exposures are adequa only be considered after othe have been suitably evaluated appropriate standards, be sui maintained. Your supplier of personal pro selection and appropriate sta organisation for standards. Provide exhaust ventilation of airborne concentrations below The final choice of protective important to ensure that all ite	ately controlled. Persona r forms of control measu . Personal protective eq itable for use, be kept in tective equipment should ndards. For further infor r other engineering contr w their respective occupa equipment will depend u	Il protective equires (e.g. engir juipment shoul good condition d be consulted mation contact rols to keep the ational exposu- upon a risk ass	uipment should neering controls) d conform to n and properly for advice on t your national e relevant re limits. sessment. It is
Environmental exposure controls	Emissions from ventilation or they comply with the requiren cases, fume scrubbers, filters equipment will be necessary	work process equipmen nents of environmental p or engineering modifica	at should be ch protection legis ations to the pr	ecked to ensure lation. In some ocess
Individual protection measures	2			
Hygiene measures	Wash hands, forearms and fa eating, smoking and using the Appropriate techniques shoul Contaminated work clothing s contaminated clothing before showers are close to the worl	e lavatory and at the end d be used to remove pois should not be allowed ou reusing. Ensure that ey	l of the working tentially contar t of the workpl	g period. ninated clothing. ace. Wash
Eye/face protection	Safety glasses with side shiel	lds.		
Skin protection				
Hand protection	Wear protective gloves if prol resistant gloves. Recommen gloves depends upon the che and the condition of the glove down after repeated chemica protection before they must b environments and material ha developed for each intended	ded: Nitrile gloves. The emicals being handled, th es (even the best chemic I exposures). Most glove re discarded and replace andling practices vary, sa	e correct choice ne conditions of ally resistant g es provide only d. Because sp afety procedure	e of protective of work and use, love will break a short time of pecific work es should be
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Section 8. Exposure controls/personal protection

	consultation with the supplier/manufacturer and with a full assessment of the working conditions.
Skin 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

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Г	Kinematic: 15 mm ² /s (15 cSt) at 100°C		
Viscosity	Kinematic: 150 mm²/s (150 cSt) at 40°C		
Decomposition temperature	Not available.		
Auto-ignition temperature	Not available.		
Partition coefficient: n- octanol/water	Not available.		
Solubility	insoluble in water.		
Relative density	Not available.		
Density	<1000 kg/m³ (<1 g/cm³) at 15°C		
Vapour density	Not available.		
Vapour pressure	Not available.		
Lower and upper explosive (flammable) limits	Not available.		
Flammability (solid, gas)	Not available.		
Evaporation rate	Not available.		
Flash point	Open cup: >200°C (>392°F) [Cleveland.]		
Boiling point	Not available.		
Melting point	Not available.		
рН	Not applicable.		
Odour threshold	Not available.		
Odour	Mild		
Colour	Brown.		
Physical state	Liquid.		
<u>Appearance</u>			

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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 polymerisation will not occur.
Conditions to avoid	Avoid excessive heat.
Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

formation on toxico	logical effects					
Acute toxicity						
Product/ ingredient name	Result/Route	Test detail	Species	Dose	Exposure	Remarks
Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)	LD50 Dermal	OECD 402	Rat	>2000 mg/kg	-	-
	LD50 Oral	OECD 401	Rat	>2000 mg/kg	-	-
Conclusion/Summa	ary Not	available.				
Irritation/Corrosion						
Product/ingredient name		ithority / Test number	Species	Route/Result	Conc.	Remarks
Reaction product of ammonium molybdat C12-C24-diethoxylate alkylamine (1:5-1:3)		404	Rabbit	Skin - Moderat irritant	e -	-
	OECD	405	Rabbit	Eyes - Rednes of the conjunctivae	s -	-
Sensitisation						
Product/ingredient name	Route of exposure	Т	est detail	Species	Result	Remarks
Reaction product of ammonium molybdat and C12-C24-diethoxylate alkylamine (1:5-1:3)		OECD	406	Sensitising	Guinea pig	-

Not available.

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Section 11. Toxicological information

Information on likely routes of exposure	Routes of entry anticipated: Dermal, Inhalation.
Potential acute health effects	
Eye 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.
Skin contact	Causes mild skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	Irritating to mouth, throat and stomach.
Symptoms related to the physi	cal, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	No specific data.

Delayed and immediate effects as well as 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 No known significant effects or critical hazards. General Carcinogenicity No known significant effects or critical hazards. **Mutagenicity** No known significant effects or critical hazards. No known significant effects or critical hazards. Teratogenicity **Developmental effects** No known significant effects or critical hazards. No known significant effects or critical hazards. **Fertility effects**

Numerical measures of toxicity Acute toxicity estimates

Not available.

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Section 12. Ecological information

Toxicity

Environmental effects

This material is harmful to aquatic life with long lasting effects.

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative potential

Not available.

Product/ingredient name	LogPow	BCF	Potential
Zinc dialkyl dithiophosphate	0.69	-	low
maleic anhydride	-2.78	-	low

<u>Mobility in soil</u>	
Soil/water partition coefficient (K _{oc})	Not available.
Mobility	Liquid. insoluble in water.
Other adverse effects	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information					
	IMDG	ATA			
UN number	Not regulated.	Not regulated.			
UN proper shipping name	-	-			
Transport hazard class(es)	-	-			
Packing group	-	-			
Environmental hazards	No.	No.			
Additional information	-	-			

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Section 14. Transport information

Special precautions for user Not available.

Transport in bulk according to IMO instruments

Section 15. Regulatory information

Not available.

Safety, health and environmental regulations specific for the product	No known specific national and/or regional regulations applicable to this product (including its ingredients).
Toxic classification (TCVN 3164-79)	Not classified as hazardous.
International lists	
Australia inventory (AICS)	At least one component is not listed.
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.
REACH Status	The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.
Japan inventory (ENCS)	At least one component is not listed.
Korea inventory (KECI)	At least one component is not listed.
Philippines inventory (PICCS)	At least one component is not listed.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.
United States inventory (TSCA 8b)	All components are active or exempted.

Section 16. Other information

History

Date of issue/ Date of revision	10 May 2021
Date of previous issue	10/9/2020
Prepared by	Product Stewardship
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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) UN = United Nations 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
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✓ Indicates information that has changed from previously issued version.

Notice to reader

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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.

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