SAFETY DATA SHEET



1. Identification of the substance/preparation and company/undertaking

Product name Castrol MGO 5W-30

SDS no. 467666

Use of the substance/mixture Automotive engine crankcase lubricant.

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

representative.

Supplier Castrol India Limited

Technopolis Knowledge Park Mahakali Caves Road

Andheri (East), MUMBAI 400 093

Maharashtra, India

Contact: +91 22 66984100

EMERGENCY TELEPHONE Toll free: 000800 100 7479 (for use in India only - 24 hours)

NUMBER Carechem Singapore: +65 3158 1198 (24 hours)

E-mail address MSDSadvice@bp.com

2. Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

Additional hazards USED ENGINE OILS

Used engine oil may contain hazardous components which have the potential to cause skin cancer.

See Toxicological Information, section 11 of this Safety Data Sheet.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

3. Composition/information on ingredients

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification		
Distillates (petroleum), hydrotreated heavy paraffinic Zinc alkyl dithiophosphate	Varies 64742-54-7 68649-42-3	20 - 50 20 - 50 1 - 5	265-157-1 272-028-3	Not classified. Not classified. Xi; R41, R38	[1] [2] [1] [2] [1]	

See Section 16 for the full text of the R-phrases declared above.

Type

M Substance classified with a health or environmental hazard

- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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

4. 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 if irritation occurs.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing

before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.

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

occur.

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

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Fire-fighting measures

Extinguishing media

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

Not suitable Do not use water jet.

Hazardous decomposition

products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

Unusual fire/explosion hazards

Special fire-fighting

Protection of fire-fighters

procedures

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

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 appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level

of protection for chemical incidents.

Accidental release measures

Personal precautions - 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 spilt material. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective

Personal precautions - For emergency responders

Environmental precautions

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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). Immediately contact emergency personnel. 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.

Small spill

Large 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.

Reference to other sections

See Section 1 for emergency contact information.

See Section 5 for firefighting measures.

See Section 8 for information on appropriate personal protective equipment.

See Section 12 for environmental precautions.

See Section 13 for additional waste treatment information.

Handling and storage

Handling - Protective measures

Handling - Advice on general

occupational hygiene

Put on appropriate personal protective equipment.

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. Store and use only in equipment/containers designed for use with this product. Keep away from heat and

direct sunlight. 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 unlabelled containers. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).

Not suitable

Storage

Prolonged exposure to elevated temperature.

Exposure controls/personal protection

Distillates (petroleum), hydrotreated heavy paraffinic

Ingredient name Base oil - unspecified Occupational exposure limits

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction

ACGIH TLV (United States).

TWA: 5 mg/m3 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction

ACGIH TLVs

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier.

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

Exposure controls

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Occupational exposure controls

rovide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

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. 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.

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. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment Respiratory protection

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

In case of insufficient ventilation, wear suitable respiratory equipment.

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.

Hand protection

General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.

Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.

Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

Glove Thickness:

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

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(India) (ENGLISH) **Eye protection** Safety glasses with side shields.

Skin and body 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.

Personal protective equipment (Pictograms)



Physical and chemical properties

General information

Appearance

Physical state Liquid.

Important health, safety and environmental information

Flash point Closed cup: 224°C (435.2°F) [Pensky-Martens.]

Viscosity Kinematic: 63 mm²/s (63 cSt) at 40°C

Kinematic: 10.62 mm²/s (10.62 cSt) at 100°C

Pour point -42 °C **Relative Density** 0.857

Solubility insoluble in water.

10. Stability and reactivity

The product is stable.

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

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

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

Reactive or incompatible with the following materials: oxidising materials. Materials to avoid

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

products

11. Toxicological information

Acute toxicity

Effects and symptoms

Potential risk of transient stinging or redness if accidental eye contact occurs. Eves

Skin Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

USED ENGINE OILS Chronic effects

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be

avoided and a high standard of personal hygiene maintained.

12. Ecological information

Persistence/degradability Biodegradable

Spillages may penetrate the soil causing ground water contamination. Mobility

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

Environmental hazards Not classified as dangerous.

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

Disposal considerations / **Waste information**

Me generation of waste should be avoided or minimised wherever possible. Waste product residues should not be disposed of via the 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 spilt material and runoff and contact with soil, waterways, drains and

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Unused product

Waste code	Waste designation
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

14. Transport information

Not classified as hazardous for transport (ADR/RID, ADNR, IMDG, ICAO/IATA)

15. Regulatory information

Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

Label requirements

Hazard symbol or symbols

Risk phrases This product is not classified according to EU legislation.

Additional warning phrases Safety data sheet available for professional user on request.

Other regulations

REACH Status

United States inventory

(TSCA 8b)

All components are listed or exempted.

Australia inventory (AICS)

Canada inventory

China inventory (IECSC)

Japan inventory (ENCS)

Korea inventory (KECI)

Philippines inventory

All components are listed or exempted.

16. Other information

Full text of R-phrases referred to in sections 2 and 3

R41- Risk of serious damage to eyes.

R38- Irritating to skin.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

For the REACH status of this product please consult your company contact, as identified in Section 1.

History

Date of issue/ Date of

revision

16/11/2013.

Date of previous issue 12/01/2012.

Prepared by Product Stewardship

Notice to reader

Indicates information that has changed from previously issued version.

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