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## ! 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Name of product** Passenger Car Engine Oil MB 229.1 (Global)

**Distributor** Daimler AG  
D-70546 Stuttgart Germany

E-Mail Mercedes-Benz-SDB@daimler.com

**Advice** Phone +49 (0)711 17-97390  
Fax +49 (0)711 17-94831

**Emergency advice** Phone +49 (0)711 17-0

**Recommended intended purpose(s)**  
lubricant

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## ! 2. HAZARDS IDENTIFICATION

**! Classification**  
R52/53

**! R-phrases**  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Special hazards information for humans and environment**

Although this product is not subject to reporting requirements for hazardous products, we recommend compliance with the safety recommendations.

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## ! 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization**  
Highly refined mineral oil with additives.

**! Hazardous ingredients**

CAS No	EC No	Name	[%]	Classification
68649-42-3	272-028-3	Zinkdialkyldithiophosphat	1 - 2,4	Xi R38-41; N R51/53
121158-58-5	310-154-3	Alkylphenol	0,1 - 1	Xn R62; Xi R38; N R50/53

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## 4. FIRST AID MEASURES

**General information**  
Remove contaminated soaked clothing immediately.  
Never put product impregnated rags into clothing pockets

**In case of inhalation**  
Ensure of fresh air.  
In the event of symptoms refer for medical treatment.



**In case of skin contact**

In case of contact with skin wash off with soap and water.

**In case of eye contact**

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

**In case of ingestion**

Call for a doctor immediately.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Fire-extinguishing activities according to surrounding.

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

**Extinguishing media which must not be used for safety reasons**

Full water jet

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

High risk of slipping due to leakage/spillage of product.

**Environmental precautions**

Do not discharge into the drains or bodies of water..

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the subsoil/soil.

**Methods for cleaning up**

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

**Additional Information**

Hazardous substances are not released

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**7. HANDLING AND STORAGE**

**Advice on safe handling**

Avoid formation of aerosols.

**Advice on protection against fire and explosion**

Do not heat up to temperatures close to the flash point.

**Requirements for storage rooms and vessels**

No particular requirements.

**Advice on storage compatibility**

Do not store together with food.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Hand protection**

Protective gloves  
Neoprene gloves  
Wear acrylo-nitrile gloves.

**Eye protection**

Safety glasses recommended during transfer

**Skin protection**

Protective clothing

**General protective measures**

Avoid continuous and intensive skin contact  
Adhere to general precaution rules when handling chemicals

**Hygiene measures**

Cloths contaminated with product should not be kept in trouser pockets.  
Use barrier skin cream.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Form**

liquid

**Colour**

brown

**Odour**

characteristic

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>Flash point</b>	220 °C			ISO 2592	
<b>Autoignition</b>					The product is not self-igniting.
<b>Density</b>	0,87 g/cm <sup>3</sup>	15 °C		DIN 51757	
<b>Solubility in water</b>					No or low immiscibility
<b>Viscosity 1 kinematic</b>	99,9 mm <sup>2</sup> /s	40 °C		DIN 51562	

**Explosive properties**

The product is not explosive

**10. STABILITY AND REACTIVITY****Hazardous decomposition products**

No hazardous decomposition products known.

**Thermal decomposition**

Remark No decomposition if used as directed.

**Additional information**

No risk of production of decomposition products when appropriately handled and stored



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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>Irritability skin</b>	non-irritant			
<b>Irritability eye</b>	non-irritant			
<b>Skin sensitization</b>	non-sensitizing			

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## ! 12. ECOLOGICAL INFORMATION

### Behaviour in sewage plant

The product floats on top of the water/sewage.

### ! General regulation

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

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## 13. DISPOSAL CONSIDERATIONS

Waste code No.	Name of waste
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
15 01 02	plastic packaging
15 01 04	metallic packaging

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

### Recommendations for the product

Remove in accordance with local official regulations.

### Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

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## 14. TRANSPORT INFORMATION

### Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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## ! 15. REGULATORY INFORMATION

### Remarks for classification

The product does not require a hazard warning label in accordance with EC directives.

### ! R-phrases

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### ! S-phrases

61 Avoid release to the environment. Refer to special instructions/safety data sheets.



## 16. OTHER INFORMATION

### **Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)**

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 62 Possible risk of impaired fertility.