

!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

!2. HAZARDS IDENTIFICATION

! Classification

R52/53

52/53

! R-phrases

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.

!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 |

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.

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.

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

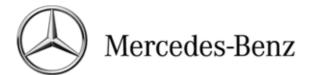
7. HANDLING AND STORAGE

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.



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 | Colour | Odour |
|--------|--------|----------------|
| liquid | brown | characteristic |

Important health, safety and environmental information

| • • • | | | | | |
|-----------------------|------------|-------------|----|-----------|-----------------------------------|
| | Value | Temperature | at | Method | Remark |
| Flash point | 220 °C | | | ISO 2592 | |
| Autoignition | | | | | The product is not self-igniting. |
| Density | 0,87 g/cm3 | 15 °C | | DIN 51757 | |
| Solubility in water | | | | | No or low immiscibility |
| Viscosity 1 kinematic | 99,9 mm2/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



11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

| | Value/Validation | Species | Method | Remark |
|--------------------|------------------|---------|--------|--------|
| Irritability skin | non-irritant | | | |
| Irritability eye | non-irritant | | | |
| Skin sensitization | non-sensitizing | | | |

! 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.

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 fot reuse.

14. TRANSPORT INFORMATION

Transport/further information

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

! 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

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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.