



Factory Approved Service Products September 2004



Mercedes-Benz USA recommends the use of Genuine Mercedes-Benz parts, accessories and factory approved service products explicitly approved by us for your vehicle model.

We have subjected these parts, accessories and service products to special tests in which their reliability, safety and their special suitability for Mercedes-Benz vehicles have been verified.

Genuine Mercedes-Benz parts, accessories and factory approved service products approved by us are available at your authorized Mercedes-Benz Center.

Approved Engine Oils

For Vehicles Without Flexible Service System (FSS or FSS PLUS) - U.S. vehicles Model Year 1997 and earlier

IMPORTANT: Engine oils are labeled on the container with various ACEA (Association des Constructeurs Européens d'Automobiles) and/or API (American Petroleum Institute) designations of quality. Mercedes-Benz recommends the use of MB approved engine oils listed in the Mercedes-Benz oil specification sheet 229.3 or 229.5 which

also meet ACEA and/or API classifications listed on the chart below. If a MB approved or ACEA quality engine oil is not available, then an API quality engine oil meeting the below listed API classification can be used. Only engine oils (including synthetic) with any of the following classification grades, or combinations thereof, are approved.

Always refer to the viscosity chart for the proper viscosity grade based on ambient temperature. Note: This chart supersedes ALL previously published viscosity charts. For additional information, please refer to the Operator's Manual.

Engine	MB Sheet	ACEA Classification ¹⁾	API Classification ¹⁾
Gasoline	229.3 229.5	A3 B3	SJ SL
Diesel	229.3 229.5	B2 B3 B4	CF-4 CG-4

1) only if MB sheet 229.3 or 229.5 is not available

For Vehicles With Flexible Service System (FSS or FSS PLUS) - U.S. vehicles Model Year 1998 - Model Year 2004

Mercedes-Benz recommends that you use only MB approved synthetic motor oil for all vehicles equipped with the Flexible Service System (FSS or FSS PLUS). Conventional petroleum based oils must not be used for vehicles equipped with the

Flexible Service System but may be used on older vehicles. If the engine oil used does not meet the above mentioned standard, engine damage is possible, which is not covered by the Mercedes-Benz New Vehicle Limited Warranty.

Use of any oil additives is not recommended by Mercedes-Benz USA and may result in damage to the engine which is not covered by the Mercedes-Benz New Vehicle Limited Warranty.

MB Approved Synthetic Engine oil	MB Sheet
Mobil 1 SuperSyn European Car Formula 0W-40	229.5
Pennzoil European Formula Ultra 5W-30	229.5
Quaker State European Formula Ultra 5W-30	229.5
ELF Excellium 229.5 5W-30	229.5
Mobil 1 SuperSyn European Car Formula 0W-40	229.3
Castrol Syntec 5W-40	229.3
ELF Excellium IDX 5W-40	229.3
ELF Excellium IDX 0W-30	229.3
Quaker State Full Synthetic European Formula 5W-40	229.3
Pennzoil Synthetic European Formula 5W-40	229.3
76 Pure Synthetic Motor Oil 5W-40	229.3
Kendall GT-1 Full Synthetic Motor Oil 5W-40	229.3
Motul 8100 E-Tech 0W-40	229.3
Motul 8100 X-Cess 5W-40	229.3
Shell Helix Ultra 5W-30	229.3
Shell Helix Ultra 5W-40	229.3
Valvoline SynPower MXL 0W-30	229.3

! 229.5 engine oils must be used with fleece oil filter (▷ page 11) designed for use with 229.5 engine oils. Using other oil filters may lead to engine damage which is not covered by the Mercedes-Benz Limited Warranty.

Approved Engine Oils

For Vehicles With Mercedes-Benz Maintenance System - U.S. vehicles as of Model Year 2005

Mercedes-Benz recommends that you use only MB 229.5 approved synthetic motor oil for all vehicles equipped with the Mercedes-Benz Maintenance System. Conventional petroleum based oils must not be used for vehicles equipped with the Mercedes-Benz Maintenance System.

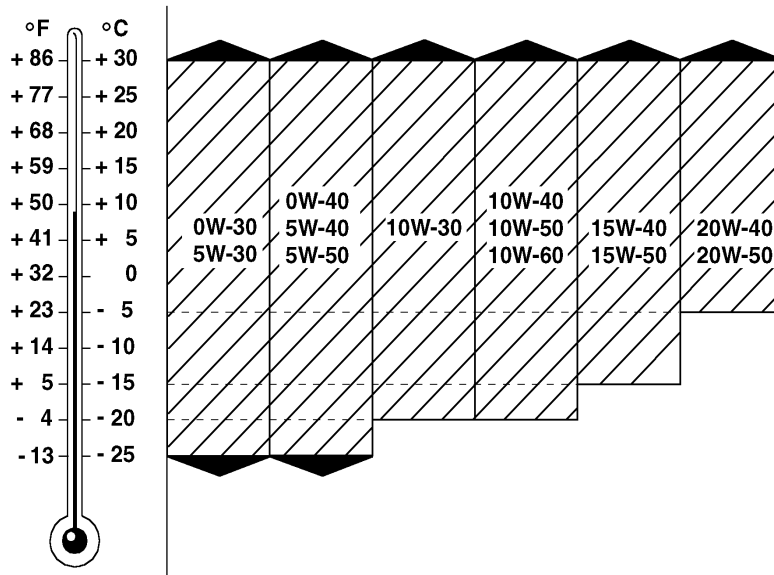
If the engine oil used does not meet the above mentioned standard, engine damage is possible, which is not covered by the Mercedes-Benz New Vehicle Limited Warranty.

Use of any oil additives is not recommended by Mercedes-Benz USA and may result in damage to the engine which is not covered by the Mercedes-Benz New Vehicle Limited Warranty.

MB Approved Synthetic Engine oil	MB Sheet
Mobil 1 SuperSyn European Car Formula 0W-40	229.5
Pennzoil European Formula Ultra 5W-30	229.5
Quaker State European Formula Ultra 5W-30	229.5
ELF Excellium 229.5 5W-30	229.5

!
229.5 engine oils must be used with fleece oil filter (▷ page 11) designed for use with 229.5 engine oils. Using other oil filters may lead to engine damage which is not covered by the Mercedes-Benz Limited Warranty.

Select oil viscosity according to the lowest air temperature expected before the next oil change using the chart below.



Approved Dexron III Automatic Transmission Fluid ¹⁾

Castrol Dexron-III/Mercon ATF F-30341
Castrol Transmax M-22257 / 22096
Chevron ATF Dexron III F-30108 / 30159
Citgo Multi-Purpose ATF D-21571

Exxon Superflo ATF Dexron III F-30111
Havoline ATF Mercon/Dexron-III F-30321
Texaco ATF Mercon/Dexron-III F-30321
Pennzoil ATF D-22413 / F-30110

Quaker State Dexron-III/Mercon F30161
Sunoco ATF Dexron-III/Mercon F-30176
Unocal Multi-Purpose ATF D-22413/22431
Valvoline ATF Type D

¹⁾ Please see your Mercedes-Benz Center regarding applications. Do not use in 722.6 or 722.9 transmission!

Gasoline Engines

Reformulated gasolines (RFG) and/or unleaded gasoline containing oxygenates such as Ethanol, TAME, ETBE, IPA, IBA, and TBA can be used provided that the ratio of any one of these oxygenates to gasoline does not exceed 10%. MIBE may be added up to 15%. The ratio of Methanol to gasoline must not exceed 3% plus co-solvents.

Mixtures of Ethanol and Methanol must not be used. Gasohol, which contains 10% Ethanol and 90% unleaded gasoline, can also be used. These blends must also meet all other fuel requirements such as resistance to spark knock, boiling range, vapor pressure, etc.

Gasoline Additives: A major concern among engine manufacturers is carbon build-up caused by gasoline. MERCEDES-BENZ recommends to use only quality gasoline containing additives that prevent the build up of carbon deposits.

After an extended period of using fuels without such additives, carbon deposits can build up, especially on the intake

valves and in the combustion area, leading to engine performance problems such as:

- warm up hesitation,
- unstable idle,
- knocking / pinging,
- misfire,
- power loss

In areas where carbon deposits may be encountered due to lack of availability of gasolines which contain these additives, Mercedes-Benz recommends the use of additives approved by us for use on Mercedes-Benz vehicles (▷ page12).

DO NOT blend other fuel additives with the fuel. These additional additives only result in unnecessary cost and may be harmful to engine operation.

Damage or malfunction resulting from poor fuel quality or from blending additional fuel additives other than those tested and approved by us for use on Mercedes-Benz vehicles (▷ page12) are not covered

by the Mercedes-Benz Limited Warranty or by any pre-owned or Extended Limited warranties.

Use only premium unleaded gasoline meeting ASTM standard D439. The octane number posted at the pump must be at least 91 min. In the U.S., this octane number is an average of the Research octane number (R) and the Motor octane number (M): $(R + M) / 2$. The octane number is also known as the Anti-Knock Index.

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To maintain the engine's durability and performance, only premium unleaded gasoline is to be used. If premium unleaded is not available and low octane gasoline is used, follow these precautions:

- **Partially fill the fuel tank with unleaded regular gasoline and fill up with premium unleaded as soon as possible.**

Fuel Requirements

Gasoline Engines (cont'd)

- **Avoid full throttle driving and abrupt acceleration.**
- Do not exceed an engine speed of 2000 rpm if the vehicle has a light load (two occupants and no luggage for example).
- Do not exceed 2/3 of maximum accelerator pedal position if the vehicle is fully loaded or operating in mountainous terrain.

As of model year 1987

All gasoline engine models require premium unleaded gasoline.

Model year 1986

All gasoline engine models except 190E 2.3 require premium unleaded gasoline.

Model years 1975 - 1985 and model year 1986 190 E 2.3

Use unleaded regular gasoline meeting ASTM standard D439. The octane number posted at the pump must be at least 87 min.

Model years 1972 - 1974

Used leaded or unleaded gasoline meeting ASTM standard D439. The octane number posted at the pump must be at least 87 min. When only unleaded gasoline is being used, check the valve clearance on engines with mechanically adjustable valves at half the recommended interval.

Pre-model year 1972

Use premium unleaded gasoline meeting ASTM standard D439. The octane number posted at the pump must be at least 91 min. Check the valve clearance at half the recommended interval.

Diesel Engines

Use only commercially available vehicular diesel fuel number 2 or number 1 (ASTM D975 Number 2-D or Number 1-D).

As of model year 2005

For information on cold weather operation, refer to the vehicle Operator's Manual.

Pre-model year 1999

For information on cold weather operation, refer to the vehicle Operator's Manual or Service Information MBNA 00/7(11-82).

Flexible Fuel Vehicles

Use premium unleaded gasoline (see gasoline engines) or Ethanol (E85) fuel to operate Flexible Fuel Vehicles. Models capable of operating with E85 are identified by a label reading Premium gasoline or E85 only! on the fuel filler flap. For information on Flexible Fuel Vehicle operation, refer to the Operator's Manual.

		M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Brakes	Product Name / Part Number									
Brake Fluid (DOT 4 Plus)	MB Brake Fluid MB Part No. 000 989 08 07 01 <small>(1.00 l container)</small> MB Part No. 000 989 08 07 11 <small>(5.00 l container)</small> Mobil Brake Fluid DOT 4 Plus	•	•	•	•	•	•	•	•	•
Brake Pad Paste	MB Brake Pad Paste MB Part No. 001 989 94 51	•	•	•	•	•	•	•	•	•
Compressor (Air Conditioning)										
Compressor Oil (R134a)	MB Compressor Oil MB Part No. BQ 1 13 0001	•	•	•	•	•	•	•	•	•
Differential (Front and Rear Axle)										
Hypoid Gear Oil¹ except G55 AMG <small>For front and rear axle differentials</small>	MB Hypoid Gear Oil (85W-90)² MB Part No. 001 989 28 03 10		•							
Hypoid Gear Oil¹ except SL65 AMG <small>For front (where applicable) and rear axle differentials</small>	MB Hypoid Gear Oil (85W-90)³ MB Part No. 001 989 17 03 10	•		•	•	•	•	•	•	•

¹ Please see your Mercedes-Benz Center regarding applications. ² Meets sheet 235.0 specification. ³ Meets sheet 235.7 specification.

		M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Differential Lock Mechanism	Product Name / Part Number									
Hypoid Gear Oil G55 AMG For front and rear axle differentials	Castrol SAF-XJ (75W-140)		•							
Hypoid Gear Oil SL65 AMG For rear axle differentials	Castrol SAF-XJ (75W-140)								•	
Brake Fluid For differential lock mechanism	MB Brake Fluid (DOT 4 Plus) MB Part No. 000 989 08 07 01 (1.00 l container) MB Part No. 000 989 08 07 11 (5.00 l container)		•							
Engine										
Supercharger Oil - Engine M271 C230 Sport Coupe, C230 Sedan only	MB Supercharger Oil MB Part No. 000 989 62 01			•						
Supercharger Oil - Engine M113 E55 AMG, SL55 AMG, CL55 AMG, S55 AMG, G55 AMG only	Mobil Jet Oil II		•		•	•			•	•
Approved Engine Oils All models	Model year 2005, see page 4 (prior model years, see pages 2 and 3)	•	•	•	•	•	•	•	•	•

		Engine 112	Engine 113	Engine 271	Engine 272	Engine 275	Engine 648
Fleece oil filter or oil filter element for use with engine oils meeting 229.5 specification	Product Name / Part Number						
	MB Part No. A 000 180 26 09	•	•		•		
	MB Part No. A 275 180 00 09					•	
	MB Part No. A 271 180 00 09			•			
	MB Part No. A 613 180 00 09						•

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Refer to the Operator's Manual for the engine designation of your model. The engine and model listing can be found in chapter "Technical Data" under "Engine".

Engine	Product Name / Part Number	M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Fuel additive for gasoline engines	MB Part No. 000 989 25 45 10 (100 ml, 3.4 fl oz container)	●	●	●	●	●	●	●	●	●

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Follow directions of use on label.

Above fuel additive should be used when vehicle is operated in areas where carbon deposits may be encountered due to lack of availability of gasolines which contain these additives. Refer to “Fuel Requirements” (▶ page 7) for additional information.

Engine Cooling System	Product Name / Part Number	M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Anticorrosion/ Antifreeze fluid	MB Anticorrosion/ Antifreeze MB Part No. BQ 1 03 0002 (Meets 325.0 specification)	●	●	●	●	●	●	●	●	●

! The use of aluminum components in Mercedes-Benz engines requires that anticorrosive/ antifreeze specifically formulated to protect aluminum parts be used. Failure to use MB 325.0 anticorrosion/ antifreeze may result in a significantly shortened service life. While there may be a number of products available which will provide the required protection, all such products have not been tested for Mercedes-Benz vehicles. The above product is suitable for Mercedes-Benz engines and can be mixed with the original anticorrosion/ antifreeze filled in at the factory.

! Cooling system design and anticorrosion/ antifreeze agent used determine the replacement interval for the coolant solution in your vehicle. Please observe the replacement intervals specified in the Maintenance Booklet for your vehicle model. Failure to use MB 325.0 anticorrosion/ antifreeze and/ or adhere to the specified replacement interval may result in a significantly shortened service life.

Greasing Points	Product Name / Part Number	M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Chassis Grease (NLGI Class 01) For all greasing points except front wheel hubs	Shell Retinax C	•	•	•	•	•	•	•	•	•
Multi-Purpose Grease (NLGI Class 2) For all greasing points except front wheel	3752 Almagnard Vari-Purpose Lubricant Castrol LM Grease Exxon Multi-Purpose Grease Renolit MP Unocal MP Automotive Grease	•	•	•	•	•	•	•	•	•
Long Term Lubricating Grease (NLGI Class 2) For release bearing, release arm and splines for connecting linkage on level control valves	Molykote Longterm 2 Plus MB Long Term Grease MB Part No. 000 989 63 51 11	•	•	•	•	•	•	•	•	•
MB Long Term Grease For propeller shaft - universal joints	MB Long Term Grease MB Part No. 000 989 63 51 11		•							
High Temperature Antifiction Grease (NLGI Class 2) For joint housing	MB High Temperature Antifiction Grease MB Part No. 001 989 23 51 10		•							

Product Information

		M-Class (163)	G-Class (463)	C-Class (203)	F-Class (211)	S-Class (220)	SILK-Class (171)	CIK-Class (209)	SL-Class (230)	CL-Class (215)
Greasing Points	Product Name / Part Number									
Complex Grease (NLGI Class 2) For sliding blocks of tilt/sliding roof	MB Lubrication Paste MB Part No. 001 989 46 51	●	●	●	●	●		●		●
Lubricant For lubricating outer guide rail of panorama roof	MB Special Lubricant MB Part No. 001 989 50 51			●	●					
Lubricating paste For cleaning outer/inner channel, shift gate, pivot arm of wind deflector of top sliding roof (panorama roof)	MB Lubrication Paste MB Part No. 001 989 46 51			●	●					
Hydraulic Oil For hydraulic soft top, retractable hardtop	MB Hydraulic Oil MB Part No. 000 989 91 03 10						●	●	●	
High Temperature Roller Bearing Grease (NLGI Class 2) For front wheel bearings	MB High Temperature Antifriction Grease MB Part No. 001 989 23 51 10	●	●	●	●	●	●	●	●	●

		M-Class (163)	G-Class (463)	C-Class (203)	F-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Greasing Points	Product Name / Part Number									
Fluid Grease (NLGI Class 00) For door lock pin and striker eye	Castrol CLS Grease	•		•	•	•	•	•	•	•
Liquid Grease (NLGI Class 00) For door locks	Exxon Mobil Chassis Grease LEZ Exxon Mobil Grease TCL 435 MB Liquid Grease MB Part No. 001 989 08 51 10		•							
Active Body Control Fluid	MB ABC Fluid MB Part No. BQ 1320001					•			•	•
Power Steering										
Steering Gear Lubricant - Power Steering	MB Power Steering Fluid MB Part No. BQ 1320001 Pentosin CHF 11S			•	•	•	•	•	•	•
Steering Gear Lubricant - Power Steering	MB Power Steering Fluid MB Part No. BQ 1460001 or an approved Dexon III ATF (▷ page6)	•	•							

Transmission	Product Name / Part Number	M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Automatic Transmission Fluid ¹⁾ (for 722.6 5-speed transmissions)	MB Automatic Transmission Fluid MB Part No. 001 989 21 03 10 ! Do not use on vehicles with 722.9 (7-speed) transmission.	•	•	•	•	•	•	•	•	•
Automatic Transmission Fluid ¹⁾ (for 722.9 7-speed and 722.6 5-speed transmissions)	MB Automatic Transmission Fluid MB Part No. 001 989 45 03 10 ! Can be used on vehicles with 722.6 (5-speed) transmission. <u>Must</u> be used on vehicles with 722.9 (7-speed) transmission.	•	•	•	•	•	•	•	•	•
Manual Transmission Fluid For MB Manual Transmission - 5- and 6-speed	MB Manual Transmission Fluid MB Part No. 001 989 26 03 10			•			•			

¹⁾ Please see your Mercedes-Benz Center regarding applications. Earlier model series other than the ones listed here may require different automatic transmissions fluids. Always ensure correct transmission fluid is used. Contact an authorized Mercedes-Benz Center for proper service product selection for your vehicle model and model year.

		M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Transfer Case										
4MATIC Transfer Case Lubricant	MB Transfer Case Fluid MB Part No. 001 989 23 03 11			•	•	•				
Transfer Case Lubricant	MB Transfer Case Fluid MB Part No. 001 989 28 03 10		•							
Transfer Case Lubricant	MB Transfer Case Fluid MB Part. No. BQ 1460001 or an approved Dexron III ATF (▷ page6)	•								

M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SILK-Class (171)	CIK-Class (209)	SL-Class (230)	CL-Class (215)
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Windshield Washing System	Product Name / Part Number
Windshield Washer Concentrate	MB Summerwash Formula MB Part No. 001 986 80 71 10 (40 ml) Suggested Mixing Ratio (1:100)

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-
-
-
-
-
-
-
-

Ambient Temperature	MB Summerwash	Added to	Water	Solvent ¹⁾
Summer use (above 32° F)	40 ml	added to	1 Gallon	
Winter use (below 32° F)	40 ml	added to		1 Gallon

¹⁾ Pre-mixed windshield washer solvent (commercially available blue concentrate with freeze protection in 1 gallon container)

Vehicle Care	Product Name / Part Number	M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SILK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
<p>Exterior care - Vehicle washing Highly concentrated conditioning shampoo specially formulated to loosen and foam away surface contaminants, enhancing the finish and extending protection. Refer to product container for application and instructions on how to use product.</p>	<p>Mercedes-Benz Car Shampoo BQ6980012</p>	●	●	●	●	●	●	●	●	●
<p>Exterior care - Paint Cleaner Paint cleanser for removing surface blemishes, oxidation, and bonded contaminants that need some extra help. Refer to product container for application and instructions on how to use product.</p>	<p>Mercedes-Benz Paint Cleaner BQ6980013</p>	●	●	●	●	●	●	●	●	●
<p>Exterior care - Paint Care Paint care product for paint finishes that are free of serious oxidation, blemishes and bonded contaminants (if these conditions exist, pre-clean with Mercedes-Benz Paint Cleaner). Removes light surface problems, polishes the finish to a brilliant high gloss and coats the finish for exceptional protection. Refer to product container for application and instructions on how to use product.</p>	<p>Mercedes-Benz Paint Care BQ6980014</p>	●	●	●	●	●	●	●	●	●

		M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
Vehicle Care	Product Name / Part Number									
Exterior Care - Paint Care For easy removal of fresh contaminants like tree sap mist and hard water spots without water when they first occur. Fills the void between vehicle washing and waxing. Refer to product container for application and instructions on how to use product.	Mercedes-Benz Quick Wipe BQ6980018	●	●	●	●	●	●	●	●	●
Exterior Care - Wheels Helps remove brake dust and other road grime on wheels. Refer to product container for application and instructions on how to use product.	Mercedes-Benz Wheel Care BQ6980017	●	●	●	●	●	●	●	●	●
Exterior Care - Tires Helps keep tires looking new. Refer to product container for application and instructions on how to use product.	Mercedes-Benz Tire Care BQ6980010	●	●	●	●	●	●	●	●	●
Interior Care - Vinyl, plastic, rubber; and MB-Tex surfaces Helps clean and renew vinyl, plastic, rubber and MB-Tex interior surfaces. Refer to product container for application and instructions on how to use product.	Mercedes-Benz Interior Care BQ6980016	●	●	●	●	●	●	●	●	●

Vehicle Care	Product Name / Part Number	M-Class (163)	G-Class (463)	C-Class (203)	E-Class (211)	S-Class (220)	SLK-Class (171)	CLK-Class (209)	SL-Class (230)	CL-Class (215)
<p>Interior Care - Leather seats Helps clean, feed and condition leather. Refer to product container for application and instructions on how to use product.</p>	<p>Mercedes-Benz Leather Seat Care BQ6980015</p> <p>!</p> <p>Do not use Mercedes-Benz Leather Seat Care or any solvents to clean nubuck leather surfaces. Nubuck leather may be permanently discolored.</p>	●	●	●	●	●	●	●	●	●
<p>Interior care - Carpet, fabric Gentle stain remover for carpet and fabric surfaces. Refer to product container for application and instructions on how to use product.</p>	<p>Mercedes-Benz Carpet & Fabric Care BQ6980019</p>	●	●	●	●	●	●	●	●	●

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