

BMW 4 Series Gran Coupé (DATE 07/2024)	
<p>El grupo BMW asume los principios básicos de la sostenibilidad tomando medidas de forma proactiva para evitar el uso de determinadas sustancias químicas en la producción de sus vehículos. Por ello, los productos solo contienen sustancias impredecibles por razones técnicas. Estas sustancias están integradas en los materiales, de modo que su liberación queda reducida a un nivel mínimo siempre que el producto se use según lo previsto. Por esta razón, no supone un peligro para seres humanos y para el medio ambiente si el producto se usa con una correcta instalación. Esto implica que el vehículo y sus componentes se usan según lo previsto y respetando las instrucciones de funcionamiento y que las medidas de mantenimiento y reparación sean realizadas por expertos siguiendo las normas técnicas y los métodos recomendados. El manejo seguro del producto se especifica en el correspondiente manual. Este manual refleja nuestro afán de fomentar la sostenibilidad tanto en la producción, la elaboración y el uso de nuestros productos. Nuestras instrucciones e informaciones referentes a la reparación, las actividades de mantenimiento y las piezas de repuesto originales de BMW contienen además advertencias de seguridad a contemplar por parte del personal de servicio. Según la normativa de la Unión, un vehículo usado solo puede ser eliminado en una empresa oficialmente autorizada para el reciclado de vehículos usados. Los componentes del vehículo se deben eliminar asimismo de acuerdo con la normativa local y las autoridades competentes.</p>	
Difusión de informaciones según el artículo 33 de REACH	
<p>Este vehículo se compone de productos especificados en el artículo 33 del Reglamento (CE) nº 1907/2006 del Parlamento Europeo y del Consejo relativo al registro, la evaluación, la autorización y la restricción de las sustancias y preparados químicos (REACH). Según el artículo 33, todo fabricante se compromete a proporcionar información sobre las sustancias contenidas en sus productos. Este vehículo, incluidos todos los componentes del producto, contiene sustancias que cumplen los criterios especificados en el artículo 57 y que según el artículo 59(1) se detectan en una concentración de más del 0,1 por ciento en peso. Informamos además de que en casi todos los grupos de productos se utiliza la sustancia plomo (n.º de registro CAS 7439-92-1, principalmente como componente de aleación. Además, el plomo también puede encontrarse como componente en materiales pesados reciclados.</p>	
Name of substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (Typical use according to the REACH Annex XV Dossier)	Location of article containing the substance in the product (Detailed, including optional equipment)
1,2-Dimethoxyethane, ethylene glycol dimethyl ether, EGDME (typically as process solvent and for surface treatment)	Drive Assistance (Radio-controlled locking system) Entertainment and Navigation (Anti-theft device) Wheels and tires (Car wheels)
1,3-Propanesultone (typically as electrolyte in batteries)	Drive Assistance (Radio-controlled locking system)
6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol (typically for production of polymers and rubbers)	Body (Airbags, Safety belts, Window mechanism with electrical control in front door, Window mechanism with electrical control in rear door) Chassis (Pressure accumulator and pump unit, Steering column) Entertainment and Navigation (Anti-theft device) Interior (Front seats) Powertrain (Thermostat and engine mounted cooling lines)
2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (typically used in coatings, paints and fillers)	Chassis (Rear wheel brakes) Drive Assistance (Radio-controlled locking system, Rear view camera) Electronic (Control units, module, Front lamp cluster, High-voltage accumulator system, Potential equalization, Switch, sensor) Entertainment and Navigation (Antenna, Radio, amplifier, CD-player) Powertrain (Coolant pump with drive, Electric machine individual components, Exhaust gas recirculation, Thermostat and engine mounted cooling lines)
2-Methylimidazole (typically as hardener in epoxy resins and for production of adhesives)	Chassis (Rear wheel brakes) Powertrain (Exhaust pipe with catalyst or complete system, DPF)
4,4'-Isopropylidenediphenol (typically for production of polymers and resins)	Communication (Off-hands mobile communication) Entertainment and Navigation (Radio, amplifier, CD-player)
Diazene-1,2-dicarboxamide, ADCA (typically as blowing agent in plastic and rubber manufacturing)	Body (Bodyshell) Interior (Side trim panel with armrests)
Lead monoxide, lead oxide (typically as constituent of electronic components)	Body (Air guides) Chassis (Anti-block system, Brake boosters, Steering column) Communication (Off-hands mobile communication) Drive Assistance (Adaptive cruise control, Distance warning systems, Heading control, Rear view camera) Electronic (Brake lights, Control units, module, Front lamp cluster, Head-up Display, High voltage charging electronics, High-voltage accumulator system, High-voltage battery individual components, Inner lights, Rear light cluster, Switch, sensor) Entertainment and Navigation (Antenna, Radio, amplifier, CD-player, Video and tv-sets) Heating and air conditioning (Air conditioner, Auxiliary heater with control elements, Heater with control, seat heating) Interior (Front seats, Mirrors, sun visors, ashtrays, trays) Powertrain (Alternator with drive and mountings, Automatic transmission, Carbon canister ventilation, Control Hybrides/E-drive, Coolant pump with drive, Electronic switching or control devices, Exhaust gas recirculation, Fuel tank with filler pipe, Injection control unit, Injection nozzles and tubing, Intake silencer, Selective catalytic reduction technology, Sensor for injection control unit, Thermostat and engine mounted cooling lines, Transmission electric drive components, Variable valve train, Ventilation, evaporation emission control)
Diboron trioxide (typically for production of borosilicate and crystal glass)	Body (Air guides) Chassis (Anti-block system) Communication (Off-hands mobile communication) Drive Assistance (Adaptive cruise control, Radio-controlled locking system) Electronic (Front lamp cluster, High voltage charging electronics, High-voltage accumulator system, High-voltage battery individual components, Potential equalization) Entertainment and Navigation (Video and tv-sets) Heating and air conditioning (Air conditioner, Auxiliary heater with control elements, Heater with control, seat heating) Interior (Front seats, Mirrors, sun visors, ashtrays, trays) Powertrain (Automatic transmission, Control Hybrides/E-drive, Coolant pump with drive, Electronic switching or control devices, Exhaust gas recirculation, Variable valve train)
Boric acid (typically for production of glass and ceramics and as flame retardant)	Electronic (Potential equalization) Powertrain (Starter with mount)
Decamethylcyclopentasiloxane (typically as feedstock for the production of silicone polymers)	Body (Window mechanism with electrical control in front door) Drive Assistance (Radio-controlled locking system) Powertrain (Alternator with drive and mountings, Control Hybrides/E-drive, Engine cooler with mounting, Housing cover, Oil cooler lines, Oil filter and lines, Starter cable, Thermostat and engine mounted cooling lines, Transmission wiring harness)
Dicyclohexyl phthalate (typically as plasticizer for production of polymers)	Body (Airbags) Chassis (Rear wheel brakes) Electronic (Rear light cluster) Powertrain (Alternator with drive and mountings, Engine cooler with mounting)
Dodecamethylcyclohexasiloxane (typically as feedstock for the production of silicone polymers)	Powertrain (Alternator with drive and mountings, Carbon canister ventilation, Control Hybrides/E-drive, Engine cooler with mounting, Exhaust gas recirculation, Housing cover, Sensor for injection control unit, Starter cable)
Imidazolidine-2-thione (typically for production of polymers and rubbers)	Chassis (Front axle suspension, Front wheel brakes) Heating and air conditioning (Auxiliary heater with control elements)
Octamethylcyclotetrasiloxane (typically as feedstock for the production of silicone polymers)	Body (Window mechanism with electrical control in front door) Drive Assistance (Radio-controlled locking system) Electronic (High voltage charging electronics) Heating and air conditioning (Heater with control, seat heating) Powertrain (Alternator with drive and mountings, Engine cooler with mounting, Housing cover, Starter cable, Transmission wiring harness)
Tris(4-nonylphenyl, branched and linear) phosphite, TNPP (typically for production of polymers and rubbers)	Heating and air conditioning (Air conditioner)
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (typically as flame retardant and as additive in plastics and resins)	Body (Bumper rear) Entertainment and Navigation (Radio, amplifier, CD-player) Heating and air conditioning (Auxiliary heater with control elements) Powertrain (Automatic transmission, Control Hybrides/E-drive, Electronic switching or control devices, Exhaust gas recirculation, Sensor for injection control unit, Supercharging contrivance with regulation, Switch and relays)
Aluminosilicate Refractory Ceramic Fibres (typically for heat insulation)	Heating and air conditioning (Auxiliary heater with control elements)
Melamine (typically used in coatings, inks, resins and polymers)	Electronic (High voltage charging electronics, High-voltage accumulator system, High-voltage battery individual components) Powertrain (Coolant pump with drive, Housing cover)
Medium-chain chlorinated paraffins (typically as flame retardant and as additive in plastics, sealants, rubber, textiles)	Heating and air conditioning (Air and water lines) Interior (Insulating panel) Powertrain (Coolants lines)
Bumetrizole (typically as plasticizer for production of polymers and paints)	Body (Door locks, grab handles and front fittings, Loose car body components, Sealings) Chassis (Anti-block system, Brake control (Hydraulic system)) Electronic (Auxiliary cable) Entertainment and Navigation (Central display and control unit) Heating and air conditioning (Nozzles, flow-out organs)
Bis(4-chlorophenyl)sulfone (typically for production of polymers and rubbers)	Powertrain (Exhaust gas recirculation, Supercharging contrivance with regulation)
4-Nonylphenol, branched and linear (typically as dispersing agent in coatings, adhesives and paints)	Powertrain (Selective catalytic reduction technology)
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (typically as dispersing agent in coatings, adhesives, sealants, printing inks, fillers)	Body (Air guides) Chassis (Steering column) Communication (Off-hands mobile communication) Electronic (Front lamp cluster, High-voltage accumulator system, High-voltage battery individual components, Inner lights, Rear light cluster, Switch, sensor) Entertainment and Navigation (Loudspeaker and cover, Radio, amplifier, CD-player, Video and tv-sets) Interior (Instrument panel)
4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated (typically as dispersing agent in coatings, adhesives and paints)	Powertrain (Exhaust controls)
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (typically for adhesives, sealants, coatings and inks)	Electronic (Potential equalization) Powertrain (Thermostat and engine mounted cooling lines)
Bis(2-(2-methoxyethoxy)ethyl)ether, tetraglyme (typically as process solvent)	Chassis (Steering column) Drive Assistance (Radio-controlled locking system) Electronic (Horn)
Diocetyl diacrylate (typically for production of polymers, coating products, adhesives and sealants)	Powertrain (Automatic transmission)
2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one (typically as plasticizer for production of polymers and paints)	Chassis (Front axle suspension) Entertainment and Navigation (Video and tv-sets)
S-(Tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorothioate (typically used in lubricants)	Powertrain (Vacuum pump)
<p>Este documento contiene informaciones relativas al material y al contenido basadas en observaciones propias y, sobre todo, en información procedente de nuestra cadena de suministro. Información adicional: Algunos óxidos anorgánicos están integrados en las estructuras de vidrio o cerámica lo que modifica las características específicas así como la clasificación según REACH. Se puede producir una constatación parecida con sustancias integradas en el polímero.</p>	