

BMW X5 (DATE 04/2023)	
<p>The BMW Group is committed to sustainable principles and is therefore taking proactive measures to avoid certain chemicals in the production of our vehicles. Due to that only substances that are technically required in the product are still contained. The substances are incorporated in such a way that potential exposure to the customer is minimized, and danger for humans or the environment can be excluded as long as the vehicle and its parts are used as intended, and any repairs, servicing and maintenance are carried out following technical instructions for those activities, and industry standard good practices. Safe use of the product is described in the owner manual that is consistent with our own commitment to promote the responsible manufacturing, handling and use of our products. Our information on repair and servicing of vehicles and genuine parts also includes safe use information for service personnel. An end-of-life vehicle may only be disposed of legally in the European Union at an Authorised Treatment Facility (ATF). Vehicle parts should be disposed in accordance with locally applicable laws and local authority guidance.</p>	
<p>Communication of information according to Article 33 REACH</p>	
<p>This product is composed of articles defined under Article 3(3) of the Regulation No. 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Any supplier shall comply with the duty to communicate information on substances in articles in accordance to Article 33. This product, including any article that the product is composed of, does contain substances meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w). We inform that lead (CAS-No. 7439-92-1) is used in almost all products categories, primary as alloying element. Recycled aluminum and metals may contain lead as impurity.</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)
2-Ethoxyethyl acetate (typically for production of paints and polymers)	Body (Underside panelling, Shielding engine bay/exhaust system)
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) Wheels and tires (Car wheels)
6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol (typically for production of polymers and rubbers)	Body (Bodyshell) Entertainment and Navigation (Loudspeaker and cover)
2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (typically used in coatings, paints and fillers)	Chassis (Steering column) Drive Assistance (Radio-controlled locking system, Rear view camera) Electronic (Cable harness, Control units, moduls, Front lamp cluster, High voltage charging electronics, Rear light cluster, Side lamps, reflectors, Switch, sensor) Entertainment and Navigation (Antenna) Interior (Mirrors, sun visors, ashtrays, trays) Powertrain (Exhaust gas recirculation, Thermostat and engine mounted cooling lines)
2-Methylimidazole (typically as hardener in epoxy resins and for production of adhesives)	Electronic (High voltage charging electronics) Powertrain (Engine cooler with mounting, Exhaust pipe with catalyst or complete system, DPF)
4,4'-Isopropylidenediphenol (typically for production of polymers and resins)	Electronic (High voltage charging electronics) Heating and air conditioning (Air conditioner, Heater with control, seat heating)
Diazene-1,2-dicarboxamide, ADCA (typically as blowing agent in plastic and rubber manufacturing)	Body (Bodyshell, Bonnet latch, locks and fittings, Colours, paints and basic material) Chassis (Rear axle suspension) Electronic (Power distribution box, Jumper cable supports) Interior (Floor, trunk, engine compartment trim, mats, Instrument panel, Side trim panel with armrests)
Lead monoxide, lead oxide (typically as constituent of electronic components)	Body (Air guides, Coverings rocker panel/wheelhouse, Door locks, grab handles and front fittings, Window mechanism with electrical control in rear door) Chassis (Active rear axle kinematic, Anti-block system, Lateral moment distribution rear axle, Pressure accumulator and pump unit, Self-levelling elements for hydropneumatic system electrical components, Steering column, Steering gear) Communication (Off-hands mobile communication) Drive Assistance (Adaptive cruise control, Distance warning systems, Heading control, Rear view camera, Time-to-line crossing external camera) Electronic (Battery with holder, Brake lights, Control units, moduls, Fog lamps, additional lamps, Front lamp cluster, Head-up Display, High voltage charging electronics, High-voltage accumulator system, High-voltage battery individual components, Inner lights, Instrument cluster, Potential equalization, Rear light cluster, Switch, sensor, Windshield wipers) Entertainment and Navigation (Airbag-releasing device, 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, Rear seats) Powertrain (Alternator with drive and mountings, Automatic transmission, Carbon canister ventilation, Charge air cooler with mounting, Control Hybrides/E-drive, Coolant pump with drive, Delivery, preparation and content measurement control units, fuel pump, Electronic switching or control devices, Exhaust gas recirculation, Fuel tank with filler pipe, Housing ventilation, Injection control unit, Injection nozzles and tubing, intake silencer, Selective catalytic reduction technology, Sensor for injection control unit, Thermostat and engine mounted cooling lines, Variable valve train, Ventilation, evaporation emission control)
Silicic acid, lead salt (typically for production of glass and ceramics)	Communication (Off-hands mobile communication) Electronic (Head-up Display)
Diboron trioxide (typically for production of borosilicate and crystal glass)	Body (Air guides) Chassis (Anti-block system, Steering column) Communication (Off-hands mobile communication) Drive Assistance (Adaptive cruise control, Distance warning systems, Night Vision, Radio-controlled locking system, Time-to-line crossing external camera) Electronic (Battery with holder, Control units, moduls, Front lamp cluster, High voltage charging electronics, High-voltage accumulator system, Instrument cluster, Potential equalization, Switch, sensor, Windshield wipers) Entertainment and Navigation (Airbag-releasing device, Video and tv-sets) Heating and air conditioning (Air conditioner, Heater with control, seat heating) Interior (Front seats, Mirrors, sun visors, ashtrays, trays, Rear seats) Powertrain (Control Hybrides/E-drive, Coolant pump with drive, Electronic switching or control devices, Exhaust gas recirculation, Housing ventilation, Injection control unit, Transfer box, Variable valve train)
Boric acid (typically for production of glass and ceramics and as flame retardant)	Body (Boot lid latch, locks and fittings) Electronic (Windshield-washer unit) Entertainment and Navigation (Video and tv-sets) Interior (Front seats) Powertrain (Starter with mount)
Decamethylcyclopentasiloxane (typically as feedstock for the production of silicone polymers)	Drive Assistance (Radio-controlled locking system) Electronic (High-voltage battery individual components) Powertrain (Engine wiring harness, Oil cooler lines, Oil filter and lines) Powertrain/Chassis (Board equipment) Wheels and tires (Car wheels)
Dicyclohexyl phthalate (typically as plasticizer for production of polymers)	Body (Bodyshell) Heating and air conditioning (Auxiliary heater with control elements)
Dodecamethylcyclohexasiloxane (typically as feedstock for the production of silicone polymers)	Electronic (High-voltage battery individual components) Powertrain (Carbon canister ventilation, Coolant pump with drive, Exhaust gas recirculation, Sensor for injection control unit) Powertrain/Chassis (Board equipment) Wheels and tires (Car wheels)
Imidazolidine-2-thione (typically for production of polymers and rubbers)	Body (Boot lid latch, locks and fittings, Bumper rear) Chassis (Front axle suspension, Front wheel brakes) Powertrain (Ecu box/mounting, Engine sound system, Propeller shaft, rear, Starter with mount)
Nonylphenol (typically as dispersing agent in coatings, adhesives and paints)	Powertrain (Automatic transmission, Coolants lines, Engine sound system)
Octamethylcyclotetrasiloxane (typically as feedstock for the production of silicone polymers)	Body (Safety belts) Chassis (Front axle suspension) Drive Assistance (Radio-controlled locking system) Electronic (Front lamp cluster, High voltage charging electronics, High-voltage battery individual components) Powertrain (Carbon canister ventilation, Control Hybrides/E-drive, Coolant pump with drive, Engine wiring harness, Selective catalytic reduction technology) Powertrain/Chassis (Board equipment)
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02.13.05.10]octadeca-7,15-diene, "Dechlorane Plus™" (typically as flame retardant)	Electronic (High voltage charging electronics) Heating and air conditioning (Heater with control, seat heating)
2,2',6',6'-tetrabromo-4,4'-isopropylidenediphenol (typically as flame retardant and as additive in plastics and resins)	Body (Boot lid latch, locks and fittings) Electronic (Battery with holder)
Aluminosilicate Refractory Ceramic Fibres (typically for heat insulation)	Heating and air conditioning (Auxiliary heater with control elements) Powertrain (Catalyst with suspension, DPF)
Melamine (typically used in coatings, inks, resins and polymers)	Chassis (Steering gear) Communication (Off-hands mobile communication) Electronic (Cable harness, High voltage charging electronics, High-voltage battery individual components, Switch, sensor) Entertainment and Navigation (Radio, amplifier, CD-player) Interior (Front door trim panel with armrests, Mirrors, sun visors, ashtrays, trays)
Alkanes, C14-17, chloro (typically as flame retardant and as additive in plastics, sealants, rubber, textiles)	Chassis (Self-levelling elements for hydropneumatic system)
4-Nonylphenol, branched and linear (typically as dispersing agent in coatings, adhesives and paints)	Body (Bodyshell)
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (typically for adhesives, sealants, coatings and inks)	Chassis (Pressure accumulator and pump unit) Communication (Off-hands mobile communication) Electronic (Instrument cluster, Switch, sensor) Entertainment and Navigation (Radio, amplifier, CD-player) Powertrain (Thermostat and engine mounted cooling lines)
Bis(2-(2-methoxyethoxy)ethyl)ether, tetraglyme (typically as process solvent)	Drive Assistance (Radio-controlled locking system)
Hexahydro-4-methylphthalic anhydride (typically for production of resins and polymers)	Electronic (Instrument cluster)
2,3-dibromo-1-propanol, 2,3-DBPA (typically as an intermediate in the manufacture of fine chemicals)	Entertainment and Navigation (Radio, amplifier, CD-player)
Dioctyltin dilaurate (typically for production of polymers, coating products, adhesives and sealants)	Powertrain (Automatic transmission)
Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate (typically as flame retardant in polycarbonate)	Communication (Off-hands mobile communication)

The information provided in this document related to material and substance content represents our knowledge and belief, which may be based in whole or in part on available information provided by suppliers to us. Additional information: Certain inorganic oxides are bound in glass or ceramic matrices that change their individual substance properties as well as their communication duties under REACH. Similar changes occur with certain precursors that are bound in polymers.