



CARSTENSEN
TRADE SINCE 1991

General Terms and Conditions of Purchase, as of September 2024

§1 Scope of application, form

(1) These General Terms and Conditions of Purchase (GTCP) apply to all business relationships with our business partners and suppliers ('Seller'). The GTCP shall only apply if the Seller is an entrepreneur (Section 14 of the German Civil Code (BGB)), a legal entity under public law or a special fund under public law.

(2) The GTCP apply in particular to contracts for the sale and/or delivery of movable goods ('Goods'), irrespective of whether the Seller manufactures the Goods itself or purchases them from suppliers (Sections 433, 650 BGB). Unless otherwise agreed, the GTCP in the version valid at the time of the Buyer's order or in any case in the version last communicated to him in text form shall also apply as a framework agreement for similar future contracts without us having to refer to them again in each individual case.

(3) These GTCP shall apply exclusively. Deviating, conflicting or supplementary General Terms and Conditions of the Seller shall only become part of the contract if and to the extent that we have expressly agreed to their validity in writing. This requirement of consent shall apply in any case, for example even if we accept the Seller's deliveries without reservation in the knowledge of the Seller's General Terms and Conditions.

(4) Individual agreements made with the Seller in individual cases (including collateral agreements, supplements and amendments) shall in any case take precedence over these GTCP. Subject to proof to the contrary, a written contract or our written confirmation shall be authoritative for the content of such agreements.

(5) Legally relevant declarations and notifications by the Seller in relation to the contract (e.g. setting of deadlines, reminders, cancellation) must be made in writing, i.e. in written or text form (e.g. letter, e-mail, fax). Statutory formal requirements and further evidence, in particular in the event of doubts about the legitimacy of the declaring party, shall remain unaffected.

(6) References to the validity of statutory provisions are for clarification purposes only. Even without such clarification, the statutory provisions shall therefore apply unless they are directly amended or expressly excluded in these GTCP.

§2 Conclusion of contract

(1) Our order shall be deemed binding at the earliest upon written submission or confirmation. The Seller shall notify us of obvious errors (e.g. typing and calculation errors) and incompleteness of the order including the order documents for the purpose of correction or completion before acceptance; otherwise the contract shall be deemed not to have been concluded.

(2) The Seller shall be obliged to confirm our order in writing within a period of 7 days or, in particular, to fulfil it without reservation by dispatching the goods (acceptance); a delayed acceptance shall be deemed a new offer and shall require our acceptance.

§3 Delivery time and delay in delivery

(1) The delivery time specified by us in the order is binding. The Seller is obliged to inform us immediately in writing if he is unlikely to be able to meet agreed delivery times - for whatever reason.

(2) If the Seller fails to perform or fails to perform within the agreed delivery period or is in default, our rights - in particular to cancellation and damages - shall be determined in accordance with the statutory provisions. The provisions in para. 3 shall remain unaffected.



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(3) If the Seller is in default, we may - in addition to further statutory claims - demand lump-sum compensation for our damage caused by default in the amount of 1% of the net price per completed calendar week, but not more than a total of 5% of the net price of the goods delivered late. We reserve the right to prove that higher damages have been incurred. The Seller reserves the right to prove that no damage at all or only significantly less damage has been incurred.

§4 Performance, delivery, transfer of risk, default of acceptance

(1) Without our prior written consent, the Seller is not authorised to have the performance owed by him rendered by third parties (e.g. subcontractors). The Seller shall bear the procurement risk for its services unless otherwise agreed in individual cases (e.g. limitation to stock).

(2) Delivery shall be made in accordance with Incoterm DDP to the place specified in the order. If the place of destination is not specified and nothing else has been agreed, delivery shall be made to our registered office at Werner-von-Siemens-Str. 3-7, D-25479 Ellerau. The respective place of destination is also the place of fulfilment for the delivery and any subsequent fulfilment (obligation to be performed at the creditor's domicile).

(3) A delivery note stating the date (issue and dispatch), contents of the delivery (article number and quantity) and our order identification (date and number) must be enclosed with the delivery. If the delivery note is missing or incomplete, we shall not be responsible for any resulting delays in processing and payment. A corresponding dispatch note with the same content must be sent to us separately from the delivery note.

(4) The risk of accidental loss and accidental deterioration of the goods shall pass to us upon handover at the place of fulfilment. If acceptance has been agreed, this shall be decisive for the transfer of risk. In all other respects, the statutory provisions of the law on contracts for work and services shall also apply accordingly in the event of acceptance. If we are in default of acceptance, this shall be deemed equivalent to handover or acceptance.

(5) The statutory provisions shall apply to the occurrence of our default of acceptance. However, the Seller must also expressly offer us its performance if a specific or determinable calendar time has been agreed for an action or co-operation on our part (e.g. provision of material). If we are in default of acceptance, the Seller may demand compensation for its additional expenses in accordance with the statutory provisions (Section 304 BGB). If the contract relates to a non-fungible item to be manufactured by the Seller (custom-made item), the Seller shall only be entitled to further rights if we have undertaken to co-operate and are responsible for the failure to co-operate.

§5 Prices and terms of payment

(1) The price stated in the order is binding. All prices include statutory value added tax, unless this is shown separately.

(2) Unless otherwise agreed in individual cases, the price shall include all services and ancillary services of the Seller (e.g. assembly, installation) as well as all ancillary costs (e.g. proper packaging, transport costs including any transport and liability insurance).

(3) The agreed price shall be due for payment within 90 calendar days of complete delivery and performance (including any agreed acceptance) and receipt of a proper invoice. If we make payment within 60 calendar days, the Seller shall grant us a 3% discount on the net amount of the invoice. In the case of bank transfer, payment shall be deemed to have been made on time if our transfer order is received by our bank before expiry of the payment deadline; we shall not be responsible for delays caused by the banks involved in the payment process.



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(4) We do not owe any interest on arrears. The statutory provisions shall apply to default in payment.

(5) We shall be entitled to rights of set-off and retention as well as the defence of non-performance of the contract to the extent permitted by law. In particular, we shall be entitled to withhold due payments as long as we are still entitled to claims against the Seller arising from incomplete or defective services.

(6) The Seller shall only have a right of set-off or retention on the basis of legally established or undisputed counterclaims.

§6 Confidentiality and retention of title

(1) We reserve ownership rights and copyrights to illustrations, plans, drawings, calculations, execution instructions, product descriptions and other documents. Such documents shall be used exclusively for the contractual performance and shall be returned to us after completion of the contract. The documents must be kept secret from third parties, even after termination of the contract. The confidentiality obligation shall only expire if and to the extent that the knowledge contained in the documents provided has become generally known.

(2) The above provision shall apply accordingly to substances and materials (e.g. software, finished and semi-finished products) as well as to tools, templates, samples and other items that we provide to the Seller for production. Such items shall - as long as they are not processed - be stored separately at the Seller's expense and insured to an appropriate extent against destruction and loss.

(3) Any processing, mixing or combination (further processing) of items provided by the Seller shall be carried out on our behalf. The same shall apply in the event of further processing of the delivered goods by us, so that we shall be deemed to be the manufacturer and shall acquire ownership of the product at the latest upon further processing in accordance with the statutory provisions.

(4) The transfer of ownership of the goods to us shall be unconditional and without regard to the payment of the price. However, if in individual cases we accept an offer of the Seller to transfer ownership conditional on payment of the purchase price, the Seller's retention of title shall expire at the latest upon payment of the purchase price for the delivered goods. We remain authorised to resell the goods in the ordinary course of business even before payment of the purchase price with advance assignment of the resulting claim (alternatively validity of the simple retention of title extended to the resale). This excludes all other forms of retention of title, in particular the extended retention of title, the forwarded retention of title and the retention of title extended to further processing.

§7 Defective delivery

(1) The statutory provisions shall apply to our rights in the event of material defects and defects of title of the goods (including incorrect and short delivery as well as improper assembly, defective assembly, operating or operating instructions) and in the event of other breaches of duty by the Seller, unless otherwise stipulated below.

(2) In accordance with the statutory provisions, the Seller shall be liable in particular for ensuring that the goods have the agreed quality upon transfer of risk to us. In any case, those product descriptions which - in particular by designation or reference in our order - are the subject of the respective contract or have been included in the contract in the same way as these GTCP shall be deemed to be an agreement on the quality. It makes no difference whether the product description originates from us, the Seller or the manufacturer.



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(3) We are not obliged to inspect the goods or make special enquiries about any defects upon conclusion of the contract. Partially deviating from § 442 para. 1 sentence 2 BGB, we are therefore entitled to claims for defects without restriction even if the defect remained unknown to us upon conclusion of the contract due to gross negligence.

(4) The statutory provisions (Sections 377, 381 HGB) shall apply to the commercial obligation to inspect and give notice of defects with the following proviso: Our obligation to inspect shall be limited to defects which become apparent

during our incoming goods inspection under external examination including the delivery documents (e.g. transport damage, incorrect and short delivery) or which are recognisable during our quality control in the random sampling procedure. If acceptance has been agreed, there is no obligation to inspect. Otherwise, it depends on the extent to which an inspection is feasible in the ordinary course of business, taking into account the circumstances of the individual case. Our obligation to give notice of defects discovered later remains unaffected. Notwithstanding our duty to inspect, our complaint (notification of defects) shall in any case be deemed to be immediate and timely if it is sent within 14 working days of discovery or, in the case of obvious defects, of delivery.

(5) Subsequent fulfilment shall also include the removal of the defective goods and reinstallation, provided that the goods have been installed in another item or attached to another item in accordance with their nature and intended use; our statutory claim to reimbursement of corresponding expenses shall remain unaffected. The Seller shall bear the expenses necessary for the purpose of inspection and subsequent fulfilment even if it turns out that there was in fact no defect. Our liability for damages in the event of an unjustified request to remedy defects shall remain unaffected; in this respect, however, we shall only be liable if we recognised or were grossly negligent in not recognising that there was no defect.

(6) Notwithstanding our statutory rights and the provisions in para. 5, the following shall apply: If the Seller does not fulfil its obligation to provide subsequent performance - at our discretion by remedying the defect (rectification) or by delivering a defect-free item (replacement delivery) - within a reasonable period set by us, we may remedy the defect ourselves and demand compensation from the Seller for the expenses required for this or a corresponding advance payment. If the subsequent fulfilment by the Seller has failed or is unreasonable for us (e.g. due to particular urgency, endangerment of operational safety or imminent occurrence of disproportionate damage), no deadline need be set; we shall inform the Seller of such circumstances immediately, if possible in advance.

(7) Otherwise, in the event of a material defect or defect of title, we shall be entitled to reduce the purchase price or to withdraw from the contract in accordance with the statutory provisions. In addition, we shall be entitled to compensation for damages and expenses in accordance with the statutory provisions.

(8) The Seller shall be responsible for the complete documentation and verification of all materials and certificates used. If a product or service does not comply with the material or certification requirements, the Buyer reserves the right to test the goods at the Seller's expense and to take further measures to ensure conformity. We do not accept any failure or lack of knowledge for the faultless delivery of certified goods and regard this as a breach of contract. We expect a faultless delivery of goods, including the correct implementation for ensuring certification, if the goods have been offered accordingly by the Seller and ordered by the Buyer.

§8 Supplier recourse

(1) We are entitled to our statutory rights of recourse within a supply chain (supplier recourse pursuant to Sections 445a, 4456, 478 BGB) without restriction in addition to the claims for



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defects. In particular, we are entitled to demand exactly the type of subsequent fulfilment (rectification or replacement delivery) from the Seller that we owe to our customer in the individual case. Our statutory right of choice (§ 439 para. 1 BGB) is not restricted by this.

(2) Before we acknowledge or fulfil a claim for defects asserted by our customer (including reimbursement of expenses pursuant to Sections 445a (1), 439 (2) and (3) BGB), we shall notify the Seller and request a written statement, briefly explaining the facts of the case. If a substantiated statement is not made within a reasonable period of time and no amicable solution is reached, the claim for defects actually granted by us shall be deemed to be owed to our customer. In this case, the Seller shall have the burden of proof to the contrary.

(3) Our claims arising from supplier recourse shall also apply if the defective goods have been further processed by us or another entrepreneur, e.g. by installation in another product.

§9 Manufacturer's liability

(1) If the Seller is responsible for product damage, he shall indemnify us against third-party claims to the extent that the cause lies within his sphere of control and organisation and he himself is liable in relation to third parties.

(2) Within the scope of his obligation to indemnify, the Seller shall reimburse expenses pursuant to Sections 683, 670 BGB arising from or in connection with claims asserted by third parties, including product recalls carried out by us. We shall inform the Seller of the content and scope of recall measures - as far as possible and reasonable - and give him the opportunity to comment. Further legal claims remain unaffected.

(3) The Seller shall take out and maintain product liability insurance with a lump sum cover of at least EUR 10 million per personal injury/property damage..

§10 Statute of limitations

(1) The reciprocal claims of the contracting parties shall become statute-barred in accordance with the statutory provisions, unless otherwise stipulated below.

(2) Notwithstanding § 438 Para. 1 No. 3 BGB, the general limitation period for claims for defects is 3 years from the transfer of risk. If acceptance has been agreed, the limitation period shall commence upon acceptance. The 3-year limitation period shall also apply accordingly to claims arising from defects of title, whereby the statutory limitation period for third-party claims in rem for restitution (Section 438 (1) No. 1 BGB) shall remain unaffected; claims arising from defects of title shall in no case become time-barred as long as the third party can still assert the right against us -in particular in the absence of a limitation period.

(3) The limitation periods of the law on sales, including the above extension, shall apply - to the extent permitted by law -to all contractual claims for defects. Insofar as we are also entitled to non-contractual claims for damages due to a defect, the regular statutory limitation period (§§ 195, 199 BGB) shall apply, unless the application of the limitation periods of the law on sales leads to a longer limitation period in individual cases.

§11 Choice of law and place of jurisdiction

(1) These GTCP and the contractual relationship between us and the Seller shall be governed by the law of the Federal Republic of Germany to the exclusion of international uniform law, in particular the UN Convention on Contracts for the International Sale of Goods.

(2) If the Seller is a merchant within the meaning of the German Commercial Code, a legal entity under public law or a special fund under public law, the exclusive - also international - place of jurisdiction for all disputes arising from the contractual relationship shall be our registered office in Ellerau. The same applies if the Seller is an entrepreneur within the



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meaning of § 14 BGB. However, in all cases we shall also be entitled to bring an action at the place of fulfilment of the delivery obligation in accordance with these GTCP or an overriding individual agreement or at the Seller's general place of jurisdiction. Overriding statutory provisions, in particular regarding exclusive jurisdiction, shall remain unaffected.

§12 General conditions, integrity and sustainability (environmental and social standards)

(1) Environmental and social standards: The Seller's compliance with internationally recognised minimum social and ecological standards is an essential basis for the cooperation between the parties. Therefore, the Seller undertakes to comply with the minimum requirements set out in the Buyer's Code of Conduct (see Annex to these GTCP). The Seller recognises the regulations laid down therein as the basis of the contract. The Seller shall provide its services in compliance with applicable national and international environmental law, minimise greenhouse gas emissions and avoid any action that could increase the vulnerability of the population and/or ecosystems. Respect for human rights, the protection of children, the prevention of violence, abuse and exploitation of any kind, non-discrimination, in particular with regard to origin, ethnicity, religion, age, gender identity, sexual orientation or disability, and the promotion of equality of all genders shall be ensured in each case in compliance with international standards and multilateral agreements, in particular international human rights agreements, in the provision of services by the Seller. The Seller shall take appropriate measures to prevent sexual harassment in the professional context and shall refrain from inciting violence or hatred and from objectively unjustified discrimination against any person or group of persons. The Seller undertakes to organise all stages of its supply chain in accordance with the principles of sustainability. This includes, in particular, the obligation to procure raw materials from responsible sources that comply with environmental standards and guarantee minimum social standards. The Seller shall ensure that its suppliers also comply with the requirements of these General Terms and Conditions of Purchase and the Seller is encouraged to offer products that are certified as sustainable and to support initiatives that promote social projects in the regions from which the raw materials originate.

(2) Compliance with legal regulations: The Seller shall comply with all relevant legal regulations, ordinances and official provisions, including tax regulations, and shall take into account the local conditions and trade practices of the country concerned.

(3) Compliance with embargoes and prevention of terrorist financing: The Seller shall not make any financial resources or other economic resources from the Buyer's remuneration available to third parties who are on a sanctions list of the United Nations and/or the EU, either directly or indirectly, and the Seller may only enter into and/or maintain such relationships with third parties who are reliable and for whom there is no legal prohibition on entering into contractual or business relationships within the framework of the performance of the contract. Furthermore, the Seller shall comply with embargoes and other trade restrictions of the United Nations, the EU or the Federal Republic of Germany within the framework of the performance of the contract, and the Seller shall inform the Buyer immediately at its own initiative if the Seller, a member of its executive and/or other managing bodies, its shareholders and/or its employees are listed on a sanctions list of the United Nations or the EU. The same applies if the Seller obtains knowledge of an event that leads to such a listing. The Seller shall inform the Buyer immediately at its own initiative of the breach of any provision of this Section 12.3. The Buyer's rights under the GTCP shall remain unaffected.

(4) Integrity: The Seller must not enter into a conflict of interest in connection with the contract. A conflict of interest may arise in particular from economic interests, political affinities or national ties, family or friendly relationships and other ties or interests. In particular,



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the Seller undertakes not to accept any additional remuneration from third parties in connection with the order and undertakes to notify the Buyer immediately of any circumstances that constitute a conflict of interest or could lead to such a conflict. Further action must be agreed with the Buyer. If the parties are unable to reach agreement, the Buyer shall be entitled to withdraw from or terminate the contract without prior notice, and the Seller may not offer, grant or accept or demand gifts or benefits for itself or others, either itself or through third parties, in connection with the award and/or performance of the contract; this shall also apply to acceleration payments. The Vendor may not agree with one or more other companies to restrict competition; any form of corruption is prohibited. The Seller is obliged to take suitable and appropriate measures to prevent and combat corruption. It is also obliged to immediately report confirmed cases and serious suspected cases of corruption and/or property offences such as fraud, embezzlement or breach of trust in connection with the execution of the order to the Buyer's whistleblower/complaints system. The whistleblower/complaints system can be accessed via the Buyer's homepage. The term 'third party' includes employees, relatives or other related persons.

(5) Legal consequences: If the Seller violates an obligation under § 12, the Buyer shall be entitled to withdraw from or terminate the contract without prior notice, and violations of the requirements specified in § 12 may also result in the Supplier being blocked from future orders in addition to the contractual penalty. The purchaser reserves the right to remove the supplier from its supplier list and to make a note of this in industry registers in order to inform other market participants. Repeated violations shall automatically lead to the termination of all current contracts without any claim for compensation on the part of the Seller.

(6) Commitment to CO2 reduction: The Seller undertakes to implement a company-wide CO2 management system and to set annual reduction targets for greenhouse gas emissions. The Seller is expected to report to the Buyer on the progress made in reducing emissions. In addition, the Seller is obliged to optimise transport routes so that the environmental impact of logistics is minimised.

(7) Further education and training: The Seller undertakes to regularly train its employees on topics such as human rights, environmental protection and sustainable business practices. The Buyer shall provide resources and training materials to ensure that the principles of sustainability are implemented at all levels of the supplier and upstream supply chain actors.



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Minimum Requirements - Hardware Articles

Hazardous Substances	Method	Fibers (Natural)	Fibers (Synthetic)	Leather / Fur	Plastics	Rubber / Elastomers	Foams	Paint / Coating	Metals	Wood / Cork	Batteries	Electrical	Packaging	Limit	Legal Base
Alkylphenol ethoxylates (APEO)															
Nonylphenol ethoxylates (NPEO)	EN ISO 18254-1	X	X											100 mg/kg	EC 1907/2006 Annex XVII, entry 46a
Azo dyes / cleavable arylamines															
Azo dyes / cleavable arylamines	EN 14362-1 & -3; DIN EN ISO 17234-1 & -2	X	X	X										30 mg/kg	EC 1907/2006 Annex XVII, Entry 43
Chlorinated paraffins															
Short-chain chlorinated paraffins C10-C13 (SCCP)	DIN EN ISO 18219.1/-2 DIN EN ISO 22818			X	X	X	X							1000 mg/kg	EU 2019/1021; EC 1907/2006 SVHC
Medium-chain chlorinated paraffins DIN EN ISO 22818 Cw CH (MCCP)				X	X	X	X							1000 mg/kg	EC 1907/2006 SVHC
Chlorinated phenols															
Pentachlorophenol (PCP)	DIN EN 17134-2			X						X				5 mg/kg	EU 2019/1021
Tetrachlorophenol, sum (TeCP)				X						X				5 mg/kg	CH:ChemRRV
Chlorinated toluenes (in direct skin contact)															
a,a,a-4-tetrachlorotoluene	EN 17137		X											mg/kg	EC 1907/2006 Annex XVII, Entry 72
a,a,a-trichlorotoluene			X											mg/kg	
a-chlorotoluene			X											mg/kg	
Chromium VI in leather															
Chromium VI	EN ISO 17075-1 and EN ISO 17075-2 in case of interference			X										3 mg/kg	EC 1907/2006 Annex XVII, Entry 47
Dyes (in direct skin contact)															
Allergenic disperse dyes	DIN 54231		X											50 mg/kg	EC 1907/2006 Annex XVII, Entry 72, 2001/95/EC
Carcinogenic dyes		X	X	X										50 mg/kg	
Dimethyl fumarate															
Dimethyl fumarate	DIN EN ISO 16186			X						X				0.1 mg/kg	EC 1907/2006 Annex XVII, Entry 61
Flame retardants															
Polybrominated biphenyls (PBB)	IEC 62321 series										X			1000 mg/kg	2011/65/EU
Polybrominated diphenyl ether (PBDE)											X			1000 mg/kg	2011/65/EU
Hexabromocyclododecane (HBCDD)	DIN EN ISO 17881-1				X									100 mg/kg	EU 2019/1021
Polybrominated biphenyls (PBB) (if treated)		X	X	X			X							No use	EC 1907/2006 Annex XVII, Entry 8
Polybrominated diphenyl ether (PBDE) (if treated)		X	X	X	X	X	X							500 mg/kg	EU 2019/1021
Formaldehyde															
Formaldehyde in wood-based materials	EN 717-1, EN 16516, preliminary testing according to EN 717-3									X				0.1 ml/m³	D: Chemical Prohibition Ordinance
Formaldehyde (in direct skin contact)	DIN + EN ISO 14184-1	X	X											75 mg/kg	EC 1907/2006 Annex XVII, Entry 72
Metals, extractable (in direct skin contact)															
Arsenic (As)	EN 16711-2	X	X											mg/kg	EC 1907/2006 Annex XVII, Entry 72
Cadmium (Cd)		X	X											mg/kg	
Chromium VI (CrVI)		X	X											mg/kg	
Lead (Pb)		X	X											mg/kg	
Metals, total content (RoHS)															
Lead (Pb)	IEC 62321 series										X			1000 mg/kg	2011/65/EU
Cadmium (Cd)											X			100 mg/kg	
Mercury (Hg)											X			1000 mg/kg	
Chromium VI (CrVI)											X			1000 mg/kg	
Metals, total content (batteries)															
Lead (Pb)	Full digestion, ICP										X			100 mg/kg	2006/66/EC (EU) 2023/1542
Cadmium (Cd)											X			20 mg/kg	
Mercury (Hg)											X			5 mg/kg	
Metals, total content															
Lead (Pb)	EN 16711-1				X	X	X	X						500 mg/kg	EC 1907/2006 Annex XVII, Entry 63
Cadmium (Cd)					X	X	X	X						100 mg/kg	EC 1907/2006 Annex XVII, Entry 23
Metals, nickel release															
Nickel (Ni) (in direct, sustained skin contact)	EN 1811, EN 12472								X					0.5 µg/cm²/week	EC 1907/2006 Annex XVII, Entry 27



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Hazardous Substances	Method	Fibers (Natural)	Fibers (Synthetic)	Leather / Fur	Plastics	Rubber / Elastomers	Foams	Paint / Coating	Metals	Wood / Cork	Batteries	Electrical	Packaging	Limit	Legal Base
Organotin compounds															
Tributyltin compounds (TBT)	CEN ISO/TS 16179 or EN ISO 22744-1	(X)	(X)		X	X	X							1000 mg/kg	EC 1907/2006 Annex XVII, Entry 20
Triphenyltin compounds (TPHT)		(X)	(X)		X	X	X							1000 mg/kg	
Dibutyltin compounds (DBT)		(X)	(X)		X	X	X							1000 mg/kg	
Diocetyl tin compounds (DOT)		(X)	(X)		X	X	X							1000 mg/kg	
Perfluorinated compounds (Materials with dirt/water repellent finish)															
Perfluorooctanesulfonic acid (PFOS) and its derivatives	EN 23702-1 DIN EN 17681-1& -2	X	X	X										1 µg/m²	EU 2019/1021
Perfluorooctanoic acid (PFOA) & its salts		X	X	X										25 ppb	
Perfluorooctanoic acid (PFOA) related compounds		X	X	X										1000 ppb	
C9-C14 PFAS & their salts		X	X	X										25 ppb	EC 1907/2006 Annex XVII, Entry 68
C9-C14 PFAS related compounds		X	X	X										250 ppb	
Perfluorohexanesulfonic acid (PFHxS) & its salts		X	X	X										25 ppb	EU 2019/1021
Perfluorohexanesulfonic acid (PFHxS) related compounds		X	X	X										1000 ppb	
Perfluorohexanoic acid (PFHxA) & its salts		X	X	X										25 ppb	EC 1907/2006 Annex XVII
Perfluorohexanoic acid (PFHxA) related compounds		X	X	X										1000 ppb	
Phthalates															
DEHP, DBP, BBP, DIBP	DIN EN ISO 14389 or IEC 62321 series				X	X		X				X		1000 mg/kg	EC 1907/2006 Annex XVII, Entry 51, SVHC, 2011/65/EU
SVHC Phthalates (see appendix)	DIN EN ISO 14389				X	X		X						1000 mg/kg	EC 1907/2006 SVHC
Polycyclic Aromatic Hydrocarbons PAH															
8 EU PAH	AIPS GS 2019:01 PAK				X	X	X	X						<1 mg/kg (each)	EC 1907/2006 Annex XVII, Entry 50
Total 15 PAH (see appendix)					X	X	X	X						<10 mg/kg	
Residues															
Benzene	Headspace GC/MS				X	X	X							5 mg/kg	EC 1907/2006 Annex XVII, Entry 72
Quinoline	DIN 54231		X											50 mg/kg	EC 1907/2006 Annex XVII, Entry 72
N-methyl-2-pyrrolidone (NMP)	DIN EN ISO 16189				X									1000 mg/kg	EC 1907/2006 Annex XVII, Entry 72, SVHC
N,N-Dimethylacetamide (DMAC)					X									1000 mg/kg	EC 1907/2006 Annex XVII, Entry 72, SVHC
N,N-Dimethylformamide (DMFa)					X									500 mg/kg	EC 1907/2006 Annex XVII, Entry 72, SVHC
Packaging															
Cadmium, lead, mercury, chromium VI	Full digestion, ICP												X	∑ 100 mg/kg	94/62/EC

Notes:

- In case of presence of a substances of very high concern (SVHC) with more than 0,1% in an article or subassemblies, supplier is obligated to inform Carstensen immediately. In principle all SVHC should be avoided. SVHC list is available under <http://echa.europa.eu/en/candidate-list-table>
- Products with biocidal finishing (treated articles) are subject to Biocidal Regulation (EU) 528/2012. Usage of Biocidal treatment needs approval of Carstensen before usage. <https://www.echa.europa.eu/web/guest/regulations/biocidal-products-regulation/understanding-bpr>
- Products, which can be confused them with foodstuffs, especially by children, are not allowed (Directive 87/357/EEC). Special care has to be taken on appearance of the product, such as odour, colour, appearance, packaging, labelling, volume or size.
- Articles, attractive to children and which might be used as toys despite the purpose as hardline products, have to comply with further requirements for toys. **pls follow separate guidelines of respective clients requirement
- Marking and labelling of the product has to follow national requirements in accordance with Regulation (EU) 2023/988 (General Product Safety Regulation – GPSR).
- This requirement refers to hardline articles (without food contact). Additional requirements are applicable if the product doesn't fit in the group of hardline articles.
- The use of per- and polyfluoroalkyl substances (PFAS), including PFAS-related compounds, shall be avoided in principle. The intentional use of PFAS is only permitted where legally allowed and technically unavoidable.



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Appendix

SUBSTANCE	CAS No.	SUBSTANCE	CAS No.
Alkylphenol ethoxylates (APEO)			
Nonylphenol ethoxylates (NPEO)	various		
Azo dyes / cleavable arylamines			
4-Aminobiphenol	92-67-1	4,4' -Methylene-bis-(2-chloroaniline)	101-14-4
Benzidine	92-87-5	4,4'-Oxydianiline	101-80-4
4-chloro-o-toluidine	95-69-2	4,4'-Thiodianiline	139-65-1
2-Naphthylamine	91-59-8	o -Toluidine	95-53-4
o-Aminoazotoluene	97-56-3	2,4 -Toluenediamine	95-80-7
2-Amino-4-nitrotoluene	99-55-8	2,4,5 -Trimethylaniline	137-17-7
p-chloroaniline	106-47-8	o -Anisidine (2-methoxyaniline)	90-04-0
2,4-Diaminoanisole	615-05-4	4 -Aminoazobenzene	60-09-3
4,4' -Diaminobiphenylmethan	101-77-9	2,4 -Xylidine	95-68-1
3,3' -Dichlorobenzidine	91-94-1	2,6 -Xylidine	87-62-7
3,3' -Dimethoxybenzidine	119-90-4	4-chloro-o-toluidinium chloride	3165-93-3
3,3' -Dimethylbenzidine	119-93-7	2-Naphthylammonium acetate	553-00-4
3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0	4-methoxy-m-phenylene diammonium sulfate	39156-41-7
p-Cresidine	120-71-8	2,4,5-trimethylaniline hydrochloride	21436-97-5
Chlorinated paraffins			
Short-chain chlorinated paraffins C10 - C13 (SCCP)	85535-84-8	Medium chain chlorinated paraffins C14 - C17 (MCCP)	85535-85-9
Chlorophenols			
Pentachlorophenol (PCP)	87-86-5	2,3,5,6-Tetrachlorophenol (TeCP)	935-95-5
2,3,4,6-Tetrachlorophenol (TeCP)	58-90-2	2,3,4,5-Tetrachlorophenol (TeCP)	4901-51-3
Dimethyl fumarate			
Dimethyl fumarate	624-49-7		
Flame retardants			
Polybrominated biphenyls (PBB)	59536-65-1	Tetrabromodiphenyl ether (tetraBDE)	various
Polybrominated diphenyl ethers (PBDE)	various	Hexabromodiphenyl ether (hexaBDE)	various
Pentabromodiphenyl ether (pentaBDE)	various	Octabromodiphenyl ether (octaBDE)	various
Heptabromodiphenyl ether (heptaBDE)	various	Hexabromocyclododecane (HBCDD)	25637-99-4
Decabromodiphenyl ether (decaBDE)	1163-19-5		
Metals			
Cadmium (Cd)	7440-43-9	Lead (Pb)	7439-92-1
Arsenic (As)	7440-38-2	Mercury (Hg)	7439-97-6
Nickel (Ni)	7440-02-0	Chromium VI (CrVI)	18540-97-9
Organotin compounds			
Dibutyltin (DBT)	various	Dioctyltin (DOT)	various
Tributyltin (TBT)	various	Triphenyltin (TPHt)	various
Perfluorinated compounds-PFOS			
Perfluorooctanesulfonic acid (PFOS)	1763-23-1		
Perfluorinated compounds -PFOS derivatives			
Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	2795-39-3	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-ET-FOSE)	1691-99-2
Perfluorooctanesulfonic acid, diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7
Perfluorooctanesulfonic acid, triethylammonium salt (PFOS-N(C ₂ H ₅) ₃)	56773-42-3	Perfluoro-1-octanesulfonyl fluoride (POSF)	307-35-7
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate N-Decyl-N,N-dimethyl-1-decanaminium salt (PFOS-N(CH ₃) ₂ •((CH ₂) ₉ CH ₃) ₂)	251099-16-8	Perfluorooctane sulfonamide (PFOSA)	754-91-6
Perfluorinated compounds -PFOA & salts			
Perfluorooctanoic acid (PFOA)	335-67-1	Perfluorooctanoic acid, silver salt (PFOA-Ag)	335-93-3
Perfluorooctanoic acid, sodium salt (PFOA-Na)	335-95-5	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Perfluorooctanoic acid, potassium salt (PFOA-K)	2395-00-8	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1



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Perfluorinated compounds - PFOA-related compounds			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	1H,1H,2H,2H-Perfluorodecylmethacrylate (8:2 FTMA)	1996-88-9
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	2H,2H-perfluorodecanoic acid (H2PFDA)	27854-31-5
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7		
Perfluorinated compounds -C9-C14 PFAS			
Perfluorononanoic acid (PFNA)	375-95-1	Perfluorotridecanoic acid (PFTrDA)	72629-94-8
Perfluorodecanoic acid (PFDA)	335-76-2	Perfluorotetradecanoic acid (PFTeDA)	376-06-7
Perfluorundecanoic acid (PFUnA)	2058-94-8	Perfluoro-3-7-dimethyloctane carboxylate (PF-3,7-DMOA)	172155-07-6
Perfluorododecanoic acid (PFDoA)	307-55-1		
Perfluorinated compounds -C9-C14 PFAS related compounds			
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	1H,1H,2H,2H-Perfluorododecanesulfonic acid (10:2 FTS)	120226-60-0
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1	1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1
2H,2H,3H,3H-Perfluorundecanoic acid (H4PFUnA)	34598-33-9	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2
Perfluorinated compounds - perfluorohexanesulfonic acid			
Perfluorohexanesulfonic acid (PFHxS)	355-46-4		
Phthalates			
Di(2-ethylhexyl)phthalate	117-81-7	N-pentyl isopentyl phthalate	776297-69-9
Benzyl butyl phthalate	85-68-7	Dipentyl phthalate	131-18-0
Dibutyl phthalate	84-74-2	dihexyl phthalate; Di-n-hexyl phthalate	84-75-3
Diisobutyl phthalate	84-69-5	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl, hexyl, and octyl diesters with ≥ 0.3% dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0
Bis(2-methoxyethyl)phthalate	117-82-8	Dicyclohexyl phthalate	84-61-7
Diisopentyl phthalate	605-50-5	Diisohexyl phthalate	71850-09-4
Polycyclic aromatic hydrocarbons (PAHs)			
Benzo[a]anthracene*	56-55-3	Benzo[<i>jj</i>]fluoranthene*	205-82-3
Benzo[a]pyrene*	50-32-8	Benzo[<i>kk</i>]fluoranthene*	207-08-9
Benzo[b]fluoranthene*	205-99-2	Chrysen*	218-01-9
Benzo[e]pyrene*	192-97-2	Dibenzo[<i>a,h</i>]anthracene*	53-70-3
Benzo[ghi]perylene	191-24-2	Indeno (1,2,3- <i>cd</i>)pyren	193-39-5
naphthalene	91-20-3	Pyren	129-00-0
Anthracene	120-12-7	Fluoranthene	206-44-0
Phenanthrene	85-01-8		

Risk related substances

The supplier hereby certifies that the product complies with the following legislation for the restriction of hazardous substances in products:

No.	Legislative provision	Declaration of conformity
1	REACH regulation No 1907/2006/EC https://echa.europa.eu/candidate-list-table applies to all purchased products and packaging	Does not contain substances of very high concern (SVHC) in the candidate list above 0.1 % by mass.
2	REACH regulation No 1907/2006/EC https://www.echa.europa.eu/authorisation-list applies to all purchased products and packaging	Does not contain substances according to the authorisation list in annex XIV.
3	REACH regulation No 1907/2006/EC https://echa.europa.eu/substances-restricted-under-reach applies to all purchased products and packaging	The restrictions in annex XVII shall be fully complied with.
4	POP regulation No 2019/1021/EC applies to all purchased products and packaging	Does not contain prohibited and restricted substances listed in annex I and II.
5	Packaging directive 94/62/EC applies to all packaging materials for production and sales products	Does not contain prohibited heavy metals as referred in article 11.
6	RoHS directive 2011/65/EC incl. 2015/863/EC applies to all purchased products which are used in sales products	Does not contain any restricted substances according to annex II.