

Arbeitsanweisung

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1. Purpose

The manufacturing industry uses a large number of materials, process materials and base materials. These affect the environment, the safety and quality of the products both during their use and their disposal. In addition, many national, European and international legal norms prohibit or regulate the use of materials. Thus, it is important to have information about the use of materials in products available for delivery. These technical delivery conditions are intended to help to clarify the material content of components, materials and products. They can also be

used as:

- Functional specification for the design and development
- Part of the general business conditions
- Information for customers
- Substitute for the answering of queries for this subject area

2. Fundamentals

This prohibition and declaration list specifies materials and material groups with the potential **risks for persons and the environment. Due to changes in the law, an update became necessary to take into account the new legal guidelines, inter alia:**

- REACH: EU directive 1907/2006/EC, VO (EG) 790/2009, VO (EU) 109/2012, VO (EU) 125/2012
- RoHS: EU directive 2002/95/EC, 2011/65/ EU „RoHS 2“ "Restriction on the use of certain dangerous materials in electrical and electronic devices"; EU directive (EU) 2015/863
- ChemVerbotsVO (German Chemical Prohibition Regulation)
- ChemOzonSchichtVO (German Chemical And Ozone Layer Regulation)
- Convention on POPs (= Stockholm Convention) (EG) Nr. 850/2004
- The list of materials used in the automotive industry that require a declaration of compliance (VDA Z32-101, edition 07.2002)
- EU recycled automotive guidelines (2000/53/EG (ELV-End of Life Vehicles Directive))
- CoC Code of Conduct = Company guide for social responsibility especially referring to Conflict Minerals Policy - Dodd-Frank-Act Sec. 1502 US law and CTA "Act" – California Transparency in Supply Chains Act of 2010 (SB 657)
- Packaging material (94/62/EG)
- StrlSchV: Radiation Protection Ordinance: Compliance with radioactive limits
- Batterie-directive 2006/66/EG / Richtlinie 2013/56/EG
- EU-directive (EU) Nr. 995/2010
- California Proposition 65 Safe Drinking Water and Toxic Enforcement Act of 1986
- Biocide product directive (EU) Nr. 528/2012

This covers all materials, which, in particular

Cause cancer, Endanger reproduction, Change genetic material, Act sensitizing, Are (very) poisonous, Endanger the environment

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3. Application and explanations / Declaration required "D" / Prohibition "P" / Z

This prohibition and declaration list is binding for all suppliers as a technical delivery condition. The supplier has to ascertain, for all deliveries, whether the substance prohibition has been adhered to and the concentrations are within the permitted limits.

Substances whose declaration is compulsory are marked with a "D". The concentration of the substance must be declared if it exceeds the limit value. Substances that are subject to bans are marked with a "P". Because the substitution of substances has an impact on quality and usability, their replacement by other substances must be approved. Banned substances "P" must not be included in the delivered material with a concentration exceeding the limit value. The prohibition and limit value may refer to specific applications. It is not necessary to specify the concentration value if the concentration of the substance is below or equal to the limit value. In this case a confirmation of compliance with the regulation is sufficient. With Z characterized materials (registration-obligated materials as per REACH appendix XIV) may be used without specific authorization only up to the end of their individual time limits.

If the certain limits cannot be adhered to due to special quality and use requirements and BURG has agreed with this, then a corresponding notification must also be provided by the supplier specifying which materials this affects. The notification must include the following information: Name of the substance, CAS or EC number, content in mass percentage in relation to the overall weight (w/w).

If there is no limit value specified, the following applies: 0.1 mass percentage w/w according to Art. 33 of the REACH Directive. Depending on the respective regulation, the limit value refers to the delivered product, substance, compound, mixture or homogenous material.

4. Scope

4.1 Legal information

These work instructions are valid even if the above legal norms do not apply in the country of production / manufacture / distribution. This also applies to the use of factory supplies and operating supplies that adhere to or are attached to part of the goods being delivered (e.g. cooling lubricant). However, this regulation neither exempts the supplier from the obligation to check substance bans or restrictions on the use of hazardous substances to other statutory provisions, nor to provide information about this. On the specific obligations on information and registration within the supply chain in accordance with REACH (EC 1907/2006), attention in this context should be paid to Title IV, Articles 31-36, Information along the supply chain and Title V, Articles 37 and 39, Downstream users.

4.2 Period of validity

These work instructions are valid until they are replaced by a new, more up-to-date version.

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5. Version

This prohibition and declaration list is based on the legal standards valid in February 2013 when it was created. These standards may be superseded by a newer version, in which case this document must be replaced accordingly.

6. Associated Abbreviations and Definitions

6.1 General definitions

Products Material or compound that has achieved a special form or surface during the manufacturing process that determines its function more than its chemical composition, as such or in added form.

Materials Chemical elements or chemical compounds as they naturally occur or in manufactured form, including additives required to maintain stability and contamination resulting from the manufacturing process, with the exception of solvents that can be removed from the material without affecting its stability or changing its composition.

Compound Blend, mixture or solution consisting of two or more materials. 6.2 Details about the columns in the list

Column 1 Substance name or Substance Group
Column 2 Chemical Abstracts Number (CAS No.) or EC number for unique identification
Column 3 Hazard, Damage to Health
Column 4 Usage / Source
Column 5 Relevance (legal standard or prohibited materials lists)
Column 6 Legal declaration required: "D" / legal prohibition: "P" / Prohibition with exceptions "PA" authorization requirement „ Z“

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6.3 Associated abbreviations

BedGgstV	specifies which materials are allowed for food-contact applications objects
ChemG	Chemicals Law – law for protection against dangerous materials.
ChemVerbotsV	Chemicals Prohibition Decree – order concerning prohibitions and restrictions governing the marketing of dangerous materials, compounds and products in accordance with the Chemicals Law.
ChemOzonSchichtV	German Chemical and Ozone Layer Regulation
C	Caustic
CX	Causes cancer, classification in accordance with EU-RL 67/548/EEC or TRGS 905.
CoC	Code of Conduct
D	Declaration required
E	Explosive
ECHA	European Chemicals Agency
EU-RL	European guidelines, including change and modification guidelines:
EU-RL	67/548/EWG: Guidelines for agreeing the legal and administration regulations of the member states for the classification, packaging and marking of compounds of dangerous materials.
EG-GHS	Regulation (EG) Nr. 1272/2008 of the classification, marking and packing of materials and mixtures
F	Highly flammable
F+	Extremely flammable
GADSL	Global Automotive Declaration Substance List
GefmaterialV	Dangerous materials decree
GP	Green Passport – „Ship Recycling“ – inventory / substance list - Initial Norway
IMO / IHM /	Hongkong convention
JIG	Joint Industry Guide (mostly relevant for Japan)
Mx	Changes genetic material, classification
N	Dangerous to the environment
O	Oxidizing
Ozone Reg. (EC)	Ozone Regulation (EC) No. 1005/2009
P	Prohibition
PA	Prohibition with exceptions
PCT / PCB	Polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT - Council Directive 96/59/EC of 16 September 1996)
PFOS	Perfluorooctanesulfonic acid or perfluorooctane sulfonate, directive 2006/122/EG, since 2009 Stockholm Convention, too.
POP	Stockholm Convention on Persistent Organic Pollutants is an international environmental treaty that aims to eliminate or restrict the production and use of persistent organic pollutants (POPs).
REACH	Registration, Evaluation and Authorisation of Chemicals VO (EG) 1907/2006
RoHS	Restriction of hazardous substances 2002/95/EG
StrlSchV	Radiation protection decree
SVHC	Substances of Very High Concern. List of candidates by ECHA. Restriction under REACH
T	Poisonous (in accordance with ChemG and EU-RL 67/548/EEC)
T+	Very poisonous (in accordance with ChemG and EU-RL 67/548/EEC)
TRGS	Technical rules for dangerous materials.
w/v	percent by weight based on the homogeneous material in RoHS
w/w	concentration “weight by weight“ for example, according to REACH
Xn	Damages health (in accordance with ChemG and EU-RL 67/548/EEC)
Xi	Irritant
Z	Substances subject to authorization REACH Annex XIV

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7. Notes and Exceptions

7.1 Material restrictions in accordance with RoHS 2002/95/EG, 2008/35/EG, 2008/385/EG, 2009/443/EG 2005/618/EG: Limit values mass% per homogeneous material 2011/65/EU ("RoHS 2" - Implementation into national law until 02/01/2013)
RoHS (EU) 2015/863
ROHS 3 : Additional 4 Phthalat-substances, Implementation into national law from 23.7.2019

7.1.1 Lead Limit value 0.1 %

Exceptions (examples – not completely)

- Lead as alloying element in steel with a lead ratio up to 0,35 % w/v
- in aluminium with a lead ratio up to 0,4 % w/v
- in copper alloying with a lead ratio up to 4 % w/v
- Batteries (marking required)
- Electrical components that contain lead encapsulated in a glass or ceramic matrix, with the exception of glass in incandescent lamps.
- Lead in the glass for cathode ray tubes, electronic components and fluorescent tubes
- For servers, storage systems and storage-array systems
- For network infrastructure equipment for switching, signal processing, transmission and network management in the field of telecommunications
- Lead in ceramic electronic components (e.g. piezo-electronic components)




7.1.2 Cadmium Limit value 0.01 %

7.1.3 Chromate (VI) Limit value 0.1%

7.1.4 Mercury Limit value 0.1%

Exceptions (examples - not completely):

- Discharge lamps and instrument panel displays (marking "Hazardous Waste" required)
- Mercury in compact fluorescent lamps in a maximum quantity of 5 mg per lamp
- Mercury in rod-shaped fluorescent lamps for general uses while observing the following maximum quantities:

-  Halophosphate 10 mg
-  Triphosphate with normal lifetime 5 mg
-  Triphosphate with long lifetime 8 mg

- Mercury in rod-shaped fluorescent lamps for special purposes
- Mercury in other lamps not listed expressly in this appendix

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7.1.5	Polybrominated biphenyls (PBB)	Limit value 0.1 %
7.1.6	Polybrominated diphenylethers (PBDE)	Limit value 0.1 %
7.1.7	Phthalate (DBP, DIBP, DEHP, BBP)	Limit value 0.1 %
7.1.8	bis(2-ethylhexyl) phthalate	Limit value 0.1 %
7.1.9	diisobutyl phthalate	Limit value 0.1 %
7.1.10	benzyl butyl phthalate	Limit value 0.1 %
7.1.11	dibutyl phthalate	Limit value 0.1 %

8. Substanz-Verbots and Declarationslist

The current version of the REACH candidate list (SVHC list) must be observed, regardless of whether the substances delivered are listed in these technical terms of delivery.

The candidate list is hosted at:

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

and is constantly updated.

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