



Collection of standards and
regulations for Commercial
Dishwashing



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1. Cleaning products

EU-Biocide Regulation

The EU Regulation (EC) No 528/2012, also referred to as EU Biocidal Products Regulation, is a regulation that governs the manufacture, labelling, market circulation and use of biocidal products, which serve to protect people, animals, materials or products against hazardous organisms such as parasites or bacteria.

The proposal was adopted on 22 May 2012 by the European Parliament and the European Council in Brussels and entered into force on 17 July 2012.

EU-CLP Regulation

Regulation (EC) No 1272/2008 including No 2024/2865/EU on the classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Application of GHS in Europe

EU-Regulation on Detergents

Regulation (EC) No 648/2004 on detergents

Governs the requirements for the aerobic, ultimate biodegradability of surfactants in detergents, exemptions for the market circulation of surfactants in detergents where requirements concerning the ultimate aerobic biodegradability, labelling regulations for detergents and information duties of the manufacturer are not satisfied

EU-REACH

Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals in the EU is complemented by CLP by ensuring that the hazards posed by chemicals are correctly classified and communicated

EU-Ecolabel

Regulation (EC) No 66/2010 on the EU ecolabel

UN-GHS

Globally Harmonised System of Classification and Labelling of Chemicals (GHS). United Nations – UN system for the globally standardised classification and labelling of chemical substances and products

D-AbwV

German Waste Water Ordinance Ordinance on requirements for the discharge of waste water into water bodies (Abwasserverordnung – AbwV) - concretizes the analysis and measurement procedure

D- German Detergents and Cleaning Products Act

The German Cleaning Agents and Detergents Act (WRMG), full title "Act on the environmental compatibility of cleaning agents and detergents", governs the environmentally sustainable composition of cleaning agents and detergents on the German market



ADR

Accord européen relatif au transport international des marchandises Dangereuses par Route. European Agreement on the International Carriage of Dangerous Goods by Road

Nordic Swan

Nordic ecolabel, also referred to as Nordic Swan or in Scandinavia simply as “The Swan“, is an ecolabel of the Nordic Council of Ministers. It was enacted in 1989 and encompasses 63 product groups. It is the official ecolabel of the Nordic countries. It is a Type-I Eco-label (ISO 14024), as a statement about the environmental sustainability of products compared with competitor products is issued by independent third parties

2. Wash Ware

EU-GMP

Regulation (EC) No 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food

EU-Ceramics

Directive 84/500/EEC on the approximation of the laws of the Member States relating to ceramic articles intended to come into contact with foodstuffs. The directive defines maximum levels of cadmium and lead that may be transferred from ceramic goods to the food that they come into contact with

EU-Plastics

Regulation (EC) No 10/2011 on plastic materials and articles intended to come into contact with foodstuffs

EU-Single-Use Plastics Directive

Directive (EU) 2019/904 on the reduction of the impact of certain plastic products on the environment

EU-Food Contact

Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food. The regulation also governs the supply chain and the purity of the plastics

EU-Metals and Alloys

Resolution **CM/Res(2024)9** on metals and alloys used in food contact materials. The technical guideline's recommendation includes specific release limits (SRLs) for metal ions that are released from materials in contact with foodstuffs and their analysis methods



D-German Food and Feed Code

The German Food and Feed Code (LFGB) describes the handling of consumer goods. It encompasses all production and processing stages along the entire food chain and applies to animal feed and cosmetics, as well as food and consumer goods. Food safety is of paramount importance. The manufacturer, retailer or distributor must guarantee satisfactory quality and traceability of the goods.

D-Bedarfsgegenstände

The German Consumer Goods Ordinance (BedGgStV) stipulates which materials are permitted for consumer goods and food packaging, and the permitted level of contamination on the body and / or from the packaging in the food.

DIN EN 631-1 „Gastro-Norm“

Materials and articles in contact with foodstuffs; catering containers; Part 1: Dimensions of containers. Gastronorm is a globally harmonised system of measurement, whereby the use of standard sizes enables a simple exchange of catering containers and is used in the catering industry and in commercial kitchens.

DIN 51032 Ceramics, glass, glass ceramics

Permissible limits for the release of lead and cadmium from articles intended for use in contact with food.

3. Safety of Dishwashing machines and accessories

EU-Machinery

Regulation (EU) 2023/1230 on machinery and repealing Directive 2006/42/EC

EU-Low Voltage

Directive 2014/35/EU on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.

EU-EMC

Directive 2014/30/EU on the harmonisation of the laws of the Member States relating to electromagnetic compatibility.

EU-RED Radio Equipment

Directive 2014/53/EC on the harmonisation of the laws of the Member States relating to making radio equipment available on the market.



D-German Product Safety Act

Act on the provision of products on the market
(Produktsicherheitsgesetz – ProdSG)

EN ISO 12100

Safety of machinery – Basic concepts, general design principles – Part 1: Basic terminology, methodology

EN 60335-1

Safety of household and similar electrical appliances general requirements

EN 60335-2-58

Household and similar electrical appliances safety

- Particular requirements for commercial electric dishwashing machines

EN 50416

Household and similar electrical appliances

- Particular requirements for commercial electric conveyor dishwashing machines

EN IEC 61770

Electric appliances connected to the water mains – Avoidance of retractive suction and failure of hose sets

EN 60204-1

Safety of machinery – Electrical equipment of machines – Part 1: General requirements

EN IEC 55014-1

Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1)

EN IEC 55014-2

Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity (CISPR 14-2)

EN IEC 61000-6-1

Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments

DIN 2403

Marking of pipelines according to the flow medium

4. Hygiene / Performance Dishwashing Technology

EU-Hygiene of foodstuffs

Regulation (EC) No 853/2004 of the European Parliament and of the Council of 29 April 2004 on the hygiene of foodstuffs

EU-Microbiological criteria for foodstuffs

Regulation (EC) No 2073/2005 of 15 November 2005 on microbiological criteria for foodstuffs

D-Infektionsschutzgesetz

Law on the Prevention and Control of Infectious Diseases in Humans (Infection Protection Act - IfSG)

D-Lebensmittelhygieneverordnung

Regulation on hygiene requirements for the production, handling and placing on the market of foodstuffs (Food Hygiene Regulation - LMHV)

EN 17735

Commercial dishwashing machines - Hygiene requirements and testing

DIN 10544

Food hygiene - Commercial dishwashing machines - Additional hygiene requirements and testing

DIN 10522

Food hygiene - Commercial cleaning of reusable boxes and reusable containers for unpackaged foodstuffs - Hygiene requirements, testing

DIN 10516

Food hygiene - Cleaning and disinfection. Guidance for the planning and performance of cleaning and disinfection during producing, handling and placing on the market of foodstuffs

EN IEC 63136

Electric dishwashers for commercial use - Test methods for measuring the performance



5. Water Treatment

EN 14743

Water conditioning equipment inside buildings - Softeners - Requirements for performance, safety and testing

EN 14898

Water conditioning equipment inside buildings - Active media filters - Requirements for performance, safety and testing

DIN 18879-1

Equipment for commercial kitchens - Systems for treatment of potable water for commercial kitchens - Part 1: Decarbonisation-systems installed before equipment for commercial kitchens

6. Drinking Water

EU-[Water intended for human consumption](#)

Directive(EU) 2020/2184 on the quality of water intended for human consumption

D-[German Drinking Water Ordinance](#)

Regulation on the quality of water intended for human consumption (Trinkwasserverordnung – TrinkwV)

D-[German Water Resources Act](#)

Act on the regulation of water resources (Wasserhaushaltsgesetz – WHG)

EN 1717

Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow

DIN 1988-100

Codes of practice for drinking water installations - Part 100: Protection of drinking water, drinking water quality control

7. Environment / Disposal / Exhaust air / Waste water

EU-[Ecodesign requirements for sustainable products](#)

Regulation (EU) 2024/1781 of the European Parliament and of the Council of 13 June 2024 establishing a framework for the setting of ecodesign requirements for sustainable products (ESPR)

EU-[Fluorinated greenhouse gases](#)

Regulation (EU) 2024/573 on fluorinated greenhouse gases

EU-[RoHS](#)

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

EU-[WEEE2](#)

Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)

D-[German Waste Water Ordinance](#)

Ordinance on requirements for the discharge of waste water into water bodies (Abwasserverordnung – AbwV). The German Waste Water Ordinance concretises the analysis and measurement procedure

EN IEC 63000

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (RoHS)

EN 16282-1 ff.

Equipment for commercial kitchens - Components for ventilation in commercial kitchens - Part 1: General requirements including calculation method

VDI 2052

Air conditioning - Kitchens (VDI Ventilation Code of Practice)

VDI-Richtlinie 6022 Blatt 1

Ventilation and indoor-air quality - Hygiene requirements for ventilation and air-conditioning systems and units (VDI Ventilation Code of Practice)



DIN 4040-100

Grease separators - Part 100: Application provisions for grease separators in accordance with DIN EN 1825-1 and DIN EN 1825-2

EN 1825-1

Grease separators - Part 1: Principles of design, performance and testing, marking and quality control

EN 1825-2

Grease separators - Part 2: Selection of nominal size, installation, operation and maintenance

8. Cyber Security

EU-Cyber Security Act

Regulation (EU) 2019/881 on ENISA (the European Union Agency for Cybersecurity) and on information and communications technology cybersecurity certification

EU-Data Act

Regulation (EU) 2023/2854 on harmonized rules on fair access to and use of data

EU-Cyber Resilience Act

Regulation (EU) 2024/2847 on horizontal cybersecurity requirements for products with digital elements

EN 18031-1

Common security requirements for radio equipment - Part 1: Internet connected radio equipment

EN 18031-2

Common security requirements for radio equipment - Part 2: Radio equipment processing data, namely Internet connected radio equipment, childcare radio equipment, toys radio equipment and wearable radio equipment

EN 18031-3

Common security requirements for radio equipment - Part 3: Internet connected radio equipment processing virtual money or monetary value



This compendium of practice, which has been drawn up by experts, should remind the reader that commercial machine washing cannot be successfully conducted on a superficial level or without the corresponding input of all persons involved in the cleaning process.

Only the understanding of technical processes, the resulting interrelations and the cooperation of all participants, particularly the dishwasher operator and staff, as well as having regular maintenance of the dishwasher, the dosing equipment and the water treatment system by the manufacturer, can produce the cleaning results expected by the user.

Consistent cooperation between the dishwasher, detergent and dosing equipment manufacturers, as well as the manufacturers of wash items, guarantees constant and optimal adaptation to practical requirements for the benefit of customers and the environment.