

Threshold values for contaminants in "green"-listed wastes established by Member States

A Compilation Document

February 2022

TABLE OF CONTENTS

1. Austria	2
2. Belgium	4
3. Bulgaria	4
4. Croatia	4
5. Cyprus	6
6. Czech Republic.....	6
7. Denmark.....	6
8. Estonia	7
9. Finland.....	7
10. France.....	7
11. Germany.....	7
12. Greece	7
13. Hungary.....	8
14. Ireland.....	8
15. Italy	8
16. Latvia	8
17. Lithuania	8
18. Luxembourg.....	8
19. Malta	8
20. Netherlands.....	9
21. Poland	9
22. Portugal.....	9
23. Romania	10
24. Slovakia.....	10
25. Slovenia.....	10
26. Spain.....	10
27. Sweden.....	10
28. United Kingdom.....	Error! Bookmark not defined.
29. EFTA countries	10

B2020	GLASS	10% Lead oxide max. 0,3% (glass waste with more than 0,3% lead oxide may be considered A2010) dispersible glass wastes are also considered impurities
EU3011 Single plastic type Only for intra-EU shipments	PLASTIC WASTE (non-halogenated plastics; resins + condensation products; fluorinated plastics (no-post-consumer waste))	6% non-hazardous impurities (e.g. chlorinated plastics and PVC without hazardous characteristics are also impurities) – see EU Correspondents Guidelines No 12; Thereof at max. 1% non-hazardous treated wood POP-content must be below limit of Annex IV of the EU-POP Regulation POP-limit for the sum of PBDE is considered to be met in case of WEEE plastics, if the total bromine content is below 0,2 % (2000 mg/kg)
EU3011 Only for intra-EU shipments	PVC (without hazardous characteristics)	6% non-hazardous impurities – see EU Correspondents Guidelines No 12 Thereof at max. 1% non-hazardous treated wood POP-content must be below limit of Annex IV of the EU-POP Regulation
EU3011 Only for intra-EU shipments	MIXTURES of defined plastic waste in ANNEX IIIA	6% non-hazardous impurities (e.g. chlorinated plastics and PVC without hazardous characteristics are also impurities in the listed mixtures) - see EU Correspondents Guidelines No 12 Thereof at max 1% non-hazardous treated wood POP-content must be below limit of Annex IV of the EU-POP Regulation POP-limit for the sum of PBDE is considered to be met in case of WEEE plastics, if the total bromine content is below 0,2 % (2000 mg/kg)
B3011 (single plastic type; only admissible mixture: PE, PP, PET for recycling of all plastic types) For import from non-EU into the EU and export outside the EU	PLASTIC WASTE (non-halogenated plastics; resins + condensation products; fluorinated plastics (no post-consumer waste/no PFTE); PVC- waste is not part of B3011	2% in total for non-hazardous impurities and non-target plastic (e.g. chlorinated plastics and PVC without hazardous characteristics are also impurities) - see EU Correspondents Guidelines No 12 POP-content must be at below limit of Annex I of the EU-POP Regulation (as direct recycling R3 without pre-treatment required – therefore limit for placing on the market must be met)
B3020 and mixture B3020 in Annex IIIA	PAPER (without lamination /coating)	10 % Laminated/coated paper and cardboard waste are considered impurities; Thereof max. 3% carbonless copy paper and carbon paper fractions (AMBER LIST: AD090)

B3020 and BEU04 (Annex IIIB)	LAMINATED/COATED PAPER	10 % non-hazardous impurities; Additionally at max 20% other non-hazardous paper waste; thereof max. 3% carbonless copy paper and carbon paper fractions (AMBER LIST: AD090)
B3040, B3080 and mixtures in Annex IIIA	RUBBER	10 % non-hazardous impurities; Remark: B3040 also covers shredded tyres
B3050 wood, cork and mixtures in Annex IIIA	WOOD / CORK	1% chemically treated wood (this includes also chip boards) or cork
		MINIMUM METALLIC CONTENT
B1100	Aluminium skimmings, excluding salt slag	40,5%; no dangerous good pursuant to UN class 4.3; no-hazardous contamination
B1100	Zinc skimmings	40,5%; no dangerous good pursuant to UN class 4.3; no-hazardous contamination

National limits (more stringent than EU standards) for classification as hazardous waste (HP15 – national limits)

- Mercury – 20 mg/kg dry mass
- PAH (Σ of 16 congeners in accordance with US EPA) – 300 mg/kg dry mass
- Benzo-a pyren 50 mg/kg dry mass
- Hydrocarbon index (C10-C40) (non-carcinogenic mineral oil) – 20000 mg/kg dry mass
- BTEX – 200 mg/kg dry mass
- Free phenols 10000 mg/kg dry mass
- PCB (definition according to Dir 96/59/EC): 30 mg/kg
- PCDD/F - 10000 ng TE/kg

POPs: 50 mg/kg also for the pesticides: Endosulfan and Dicofol as well as for polychlorinated naphthalenes (PCN)

2. Belgium

No threshold values established. Decisions are taken on a case-by-case basis.

3. Bulgaria

No information available.

4. Croatia

The following criteria for the classification of 'green'-listed wastes are prescribed in the Croatian Ordinance on Waste Catalogue (Official Gazette no. 90/15). The Republic of Croatia is in the process

of implementing thresholds as prescribed in Correspondents guidelines no 12 in the Ordinance on waste management.

Remark: all specific percentages of hazardous substances or allowed constituents should be understood as percentage by weight.

Dispersed waste means waste with particles smaller than 100 µm.

Thresholds according to substance contained in waste

The substance contained in waste		Thresholds when waste has to be classified as Amber listed waste or not classified waste
Heavy metals and heavy metal compounds	Mercury and mercury compounds	> 0
	Nickel in dispersible form	1%
	Nickel oxides	0,1%
	Beryllium oxides	0,1%
	Cadmium oxides and compounds	0,1%
	Lead compounds	0,5%
Persistent organic pollutants (POP)	PCB/PCT	0,005%
	PCDD/PCDF	15 µg TEQ/kg
	Other POP compounds	0,005%
Hydrocarbons (e.g. mineral oils)		1%

Thresholds according to impurities in each type of waste

Waste code	Waste description	Impurities in waste	Thresholds when waste has to be classified as Amber listed waste or not classified waste
B1010	Iron and steel waste	Non-hazardous non-metallic substances that do not influence recovery procedures	8% (single batches 10%)
	Iron and steel waste from the incineration facilities	Slag from waste incineration	5% (single batches 8%)
B1050	Mixed non-ferrous metal waste, heavy fraction	Non-hazardous non-metallic substances that do not influence recovery procedures	8% (single batches 10%)
B1090	Waste batteries	All batteries are classified as waste subject to the notification procedure	
B1100	Hard metal zinc	-	

	Zinc skim		Content of metal zinc less than 45% (single batches less than 40,5%)
	Aluminum shavings and skim	-	Content of metal aluminum less than 45% (single batches less than 40,5%)
B2020	Waste glass	Non-hazardous, undesirable admixtures that do not influence recovery procedures (plastics, metal, paper, wood, minerals etc.)	5%
B2130	Bituminous material (asphalt waste), not containing tar	Benzopyrene	50 mg/kg dry matter
		PAHs	300 mg/kg dry matter
B3020; Mixtures listed under code B3020	Waste paper and cardboard	Non-hazardous, undesirable admixtures that do not influence recovery procedures	2%
B4030	Used single use cameras	Batteries	All batteries are classified as waste subject to the notification procedure

5. Cyprus

No information available.

6. Czech Republic

No official threshold values have been established. Decisions are taken on a case-by-case basis.

For plastic waste, Correspondents' Guidelines N° 12 applies.

7. Denmark

Green-listed waste	Threshold value of contaminants
B1010	For B1010 Metal and metal-alloy wastes in metallic, non-dispersible form without significant contamination, i.e. no more than 5% contaminants (estimated mass). Contamination may not be in the form of hazardous waste. Note that the percentage limit is for

	guidance purposes only. For ferrous metals removed from bottom ash may have a maximum of 3% slag.
B1050	For B1050 Mixed non-ferrous metals, heavy fraction scrap, and mixtures of metal and wastes from shredding not containing other materials in concentrations sufficient to warrant hazardous classification. The mixed non-ferrous metals may not be contaminated by more than 10% (estimated mass) with, for example, plastic, soil and wood. Contamination may not be in the form of hazardous waste. Note that the percentage limit is for guidance purposes only.

For other wastes a decision is taken on a case-by-case basis. For plastic waste Correspondents' Guidelines No 12 applies

8. Estonia

No official threshold values have been established. Decisions are taken on a case-by-case basis. For plastic waste, Correspondents' Guidelines N° 12 applies.

9. Finland

No official threshold values established. Decisions are taken on a case-by-case basis. For plastic waste Correspondents' Guidelines No 12 applies. For general guidance purposes only: the amount of impurities shall not in any case exceed 10 w-%.

10. France

No official threshold values have been established in France.

11. Germany

No threshold values established; decisions on a case-by-case basis.

12. Greece

No official threshold values have been established. Decisions are taken on a case-by-case basis. For plastic waste, Correspondents' Guidelines N° 12 applies.

13. Hungary

No information available.

14. Ireland

No official threshold values have been established. Decisions are taken on a case-by-case basis.
For plastic waste, Correspondents' Guidelines No 12 applies.

15. Italy

No official threshold values have been established. Decisions are taken on a case-by-case basis.
For plastic waste, Correspondents' Guidelines N° 12 applies.

16. Latvia

No official threshold values established. Decisions are taken on a case-by-case basis.
For plastic waste, Correspondents' Guidelines No 12 applies.

17. Lithuania

No official threshold values established. Decisions are taken on a case-by-case basis.
For plastic waste Correspondents' Guidelines No 12 applies.

18. Luxembourg

No official threshold values have been established. Decisions are taken on a case-by-case basis.
For plastic waste, Correspondents' Guidelines N° 12 applies.

19. Malta

No information available.

20. Netherlands

Green-listed waste	Threshold value of contaminants
B3020	<ul style="list-style-type: none"> – max. 2% w/w other materials – may not contain any hazardous substance – is stripped of food residues / organic material, burned paper – moisture in paper max 12%
B3011	<ul style="list-style-type: none"> – max. 2% w/w other materials – may not contain any hazardous substance
EU3011	<ul style="list-style-type: none"> – max. 2% w/w other materials – may not contain any hazardous substance
B1010, B1050	<p>max. 10% w/w other materials;</p> <p><u>B1010 and B1050</u> may not contain:</p> <ul style="list-style-type: none"> (a) explosives like ammunition, blasting materials, sealed gas cylinders; (b) radioactive substances, nuclear fuels and ores as mentioned in the Nuclear Power act; (c) hazardous substances with exception of adhering oil which may contain max. 0.5 mg/kg PCB per congener 28, 52, 101, 118, 138, 153 or 180; <p><u>B1010 and B1050</u> is as much as possible stripped of:</p> <ul style="list-style-type: none"> (a) PVC derived from cables and from electrical or electronic equipment; (b) CFK containing PUR foam; (c) electrical and electronic devices unless they consists of 100% iron or steel; (d) tar-mastic; (e) not completely emptied packaging; (f) refrigerants
<p>For the relevant policy rule (in Dutch), click here.</p>	

21. Poland

No information available.

22. Portugal

No official threshold values established. Decisions are taken on a case-by-case basis.
For plastic waste Correspondents' Guidelines No 12 applies.

23. Romania

No information available.

24. Slovakia

No official threshold values have been established. Decisions are taken on a case-by-case basis. For plastic waste, Correspondents' Guidelines No 12 applies.

25. Slovenia

No official values established.

26. Spain

No information available.

27. Sweden

No official threshold values established. Decisions are taken on a case-by-case basis. For plastic waste Correspondents' Guidelines No 12 applies.

28. EEA countries

28.1 Norway

No official threshold values established. Decisions are taken on a case-by-case basis. For plastic waste Correspondents' Guidelines No 12 applies.

28.2 Other EEA countries

No information available.