

## Consolidated Waste Lists<sup>1</sup>

### ANNEX III

#### LIST OF WASTES SUBJECT TO THE GENERAL INFORMATION REQUIREMENTS LAID DOWN IN ARTICLE 18 ("GREEN" LISTED WASTE)<sup>2</sup>

Regardless of whether or not wastes are included on this list, they may not be subject to the general information requirements laid down in Article 18 if they are contaminated by other materials to an extent which

- (a) increases the risks associated with the wastes sufficiently to render them appropriate for submission to the procedure of prior written notification and consent, when taking into account the hazardous characteristics listed in Annex III to Directive 91/689/EEC; or
- (b) prevents the recovery of the wastes in an environmentally sound manner.

The following wastes will be subject to the general information requirements laid down in Article 18:

#### **B1 Metal and metal-bearing wastes**

- B1010** Metal and metal-alloy wastes in metallic, non-dispersible form:
- Precious metals (gold, silver, the platinum group, but not mercury)
  - Iron and steel scrap
  - Copper scrap
  - Nickel scrap
  - Aluminium scrap
  - Zinc scrap
  - Tin scrap
  - Tungsten scrap
  - Molybdenum scrap
  - Tantalum scrap
  - Magnesium scrap
  - Cobalt scrap
  - Bismuth scrap
  - Titanium scrap
  - Zirconium scrap
  - Manganese scrap
  - Germanium scrap
  - Vanadium scrap
  - Scrap of hafnium, indium, niobium, rhenium and gallium
  - Thorium scrap
  - Rare earths scrap
  - Chromium scrap

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<sup>1</sup> Compiled by the Focal Point Basel Convention in the Federal Environment Agency (Ger.) based on the "Guidance Manual for the Implementation of the OECD Decision C(2001)107/Final.

Supplemented and updated by Dr Joachim Wuttke

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<sup>2</sup> Any reference to List A in Annex IX to the Basel Convention shall be understood as a reference to Annex IV of the WSR

- B1020 Clean, uncontaminated metal scrap, including alloys, in bulk finished form *i.e. non-dispersible form*<sup>3</sup> (sheet, plate, beams, rods, etc.), of:
- Antimony scrap
  - Beryllium scrap
  - Cadmium scrap
  - Lead scrap (but excluding lead-acid batteries)
  - Selenium scrap
  - Tellurium scrap
- B1030 Refractory metals containing residues
- B1031 Molybdenum, tungsten, titanium, tantalum, niobium and rhenium metal and metal alloy wastes in metallic dispersible form (metal powder), excluding such wastes as specified in list A under entry A1050, Galvanic sludges
- B1040 Scrap assemblies from electrical power generation not contaminated with lubricating oil, PCB or PCT to an extent to render them hazardous
- B1050 Mixed non-ferrous metal, heavy fraction scrap, not containing Annex I materials in concentrations sufficient to exhibit Annex III characteristics<sup>4</sup>
- B1060 Waste selenium and tellurium in metallic elemental form including powder
- B1070 Waste of copper and copper alloys in dispersible form, unless they contain Annex I constituents to an extent that they exhibit Annex III characteristics
- B1080 Zinc ash and residues including zinc alloys residues in dispersible form unless containing Annex I constituents in concentration such as to exhibit Annex III characteristics or exhibiting hazard characteristic H4.3<sup>5</sup>
- B1090 Waste batteries conforming to a specification, excluding those made with lead, cadmium or mercury
- B1100 Metal-bearing wastes arising from melting, smelting and refining of metals:
- Hard zinc spelter
  - Zinc-containing drosses:
    - Galvanizing slab zinc top dross (>90% Zn)
    - Galvanizing slab zinc bottom dross (>92% Zn)
    - Zinc die casting dross (>85% Zn)
    - Hot dip galvanizers slab zinc dross (batch)(>92% Zn)
    - Zinc skimmings
  - Aluminium skimmings (or skims) excluding salt slag
  - *DELETED*<sup>6</sup> and replaced by the following entry GB040
  - Wastes of refractory linings, including crucibles, originating from copper smelting
  - Slags from precious metals processing for further refining
  - Tantalum-bearing tin slags with less than 0.5% tin

	7112	
GB040 <sup>7</sup>	262030 262090	Slags from precious metals and copper processing for further refining

<sup>3</sup> "Non-dispersible" does not include any wastes in the form of powder, sludge, dust or solid items containing encased hazardous waste liquids

<sup>4</sup> Note that even where low level contamination with Annex I materials initially exists, subsequent processes, including recycling processes, may result in separated fractions containing significantly enhanced concentrations of those Annex I materials.

<sup>5</sup> The status of zinc ash is currently under review and there is a recommendation with the United Nations Conference on Trade and Development (UNCTAD) that zinc ashes should not be dangerous goods.

<sup>6</sup> Deleted entry in the Basel list:

"- Slags from copper processing for further processing or refining not containing arsenic, lead or cadmium to an extent that they exhibit Annex III hazard characteristics "

<sup>7</sup> This OECD entry applies instead of the part of Basel entry B1100 that refers to "slags from copper processing" and is mentioned in the above footnote.

GC010 <sup>8</sup>	<i>Electrical assemblies consisting only of metals or alloys</i>	
GC020 <sup>9</sup>	<i>Electronic scrap (e.g. printed circuit boards, electronic components, wire, etc.) and reclaimed electronic components suitable for base and precious metal recovery</i>	
GC050	<i>Spent Fluid Catalytic Cracking (FCC) Catalysts (e.g.: aluminium oxide, zeolites)</i>	
B1115	Waste metal cables coated or insulated with plastics, not included in list A1190, excluding those destined for Annex IVA operations or any other disposal operations involving, at any stage, uncontrolled thermal processes, such as open-burning.	
B1120	Spent catalysts excluding liquids used as catalysts, containing any of:	
	— Transition metals, excluding waste catalysts (spent catalysts, liquid used catalysts or other catalysts) on list A:	
	Scandium	Titanium
	Vanadium	Chromium
	Manganese	Iron
	Cobalt	Nickel
	Copper	Zinc
	Yttrium	Zirconium
	Niobium	Molybdenum
	Hafnium	Tantalum
	Tungsten	Rhenium
	— Lanthanides (rare earth metals):	
	Lanthanum	Cerium
	Praseodymium	Neodym
	Samarium	Europium
	Gadolinium	Terbium
	Dysprosium	Holmium
	Erbium	Thulium
	Ytterbium	Lutetium
B1130	Cleaned spent precious-metal-bearing catalysts	
B1140	Precious-metal-bearing residues in solid form which contain traces of inorganic cyanides	
B1150	Precious metals and alloy wastes (gold, silver, the platinum group, but not mercury) in a dispersible, non-liquid form with appropriate packaging and labelling	
B1160	Precious-metal ash from the incineration of printed circuit boards (note the related entry on list A A1150)	
B1170	Precious-metal ash from the incineration of photographic film	
B1180	Waste photographic film containing silver halides and metallic silver	
B1190	Waste photographic paper containing silver halides and metallic silver	
B1200	Granulated slag arising from the manufacture of iron and steel	
B1210	Slag arising from the manufacture of iron and steel including slags as a source of TiO <sub>2</sub> and vanadium	
B1220	Slag from zinc production, chemically stabilized, having a high iron content (above 20%) and processed according to industrial specifications (e.g., DIN 4301) mainly for construction	
B1230	Mill scaling arising from the manufacture of iron and steel	
B1240	Copper oxide mill-scale	
B1250	Waste end-of-life motor vehicles, containing neither liquids nor other hazardous components	
GC030	<i>ex 890800</i>	<i>Vessels and other floating structures for breaking up, properly emptied of any cargo and other materials arising from the operation of the vessel which may have been classified as a dangerous substance or waste</i>

<sup>8</sup> Entry GC010 shall apply only for waste shipped within the Union.

<sup>9</sup> Entry GC020 shall apply only for waste shipped within the Union.

**B2 Wastes containing principally inorganic constituents, which may contain metals and organic materials**

- B2010 Wastes from mining operations in non-dispersible form<sup>10</sup>:
- Natural graphite waste
  - Slate waste, whether or not roughly trimmed or merely cut, by sawing or otherwise
  - Mica waste
  - Leucite, nepheline and nepheline syenite waste
  - Feldspar waste
  - Fluorspar waste
  - Silica wastes in solid form excluding those used in foundry operations
- B2020 Glass waste in non-dispersible form:
- Cullet and other waste and scrap of glass except for glass from cathode-ray tubes and other activated glasses

*GE020 ex 7001 Glass Fibre wastes in non-dispersible form<sup>11</sup>  
ex 701939*

- B2030 Ceramic wastes in non-dispersible form:
- Cermet wastes and scrap (metal ceramic composites)
  - Ceramic based fibres not elsewhere specified or included

*GF010 Ceramic wastes in non-dispersible form<sup>12</sup> which have been fired after shaping, including ceramic vessels (before and/or after use)*

- B2040 Other wastes containing principally inorganic constituents:
- Partially refined calcium sulphate produced from flue-gas desulphurization (FGD)
  - Waste gypsum wallboard or plasterboard arising from the demolition of buildings
  - Slag from copper production, chemically stabilized, having a high iron content (above 20%) and processed according to industrial specifications (e.g., DIN 4301 and DIN 8201) mainly for construction and abrasive applications
  - Sulphur in solid form
  - Limestone from the production of calcium cyanamide (having a pH less than 9)
  - Sodium, potassium, calcium chlorides
  - Carborundum (silicon carbide)
  - Broken concrete
  - Lithium-tantalum and lithium-niobium containing glass scraps

*GG030 ex 2621 Bottom ash and slag tap from coal-fired power plants*

*B2050 DELETED<sup>13</sup>, and replaced by the following entry GG040*

*GG040 ex 2621 Coal-fired power plants fly ash*

- B2060 Spent activated carbon not containing any Annex I constituents to an extent they exhibit Annex III characteristics, for example, carbon resulting from the treatment of potable water and processes of the food industry and vitamin production (note the related entry on list A, A4160)
- B2070 Calcium fluoride sludge
- B2080 Waste gypsum arising from chemical industry processes not included on list A (note the related entry on list A A2040)

<sup>10</sup> as footnote 3

<sup>11</sup> as footnote 3

<sup>12</sup> as footnote 3

<sup>13</sup> Deleted entry in the Basel list:

"B2050 Coal-fired power plant fly-ash, not included on list A (note the related entry on list A A2060)"

- B2090 Waste anode butts from steel or aluminium production made of petroleum coke or bitumen and cleaned to normal industry specifications (excluding anode butts from chlor alkali electrolyses and from metallurgical industry)
- B2100 Waste hydrates of aluminium and waste alumina and residues from alumina production excluding such materials used for gas cleaning, flocculation or filtration processes
- B2110 Bauxite residue ("red mud") (pH moderated to less than 11.5)
- B2120 Waste acidic or basic solutions with a pH greater than 2 and less than 11.5, which are not corrosive or otherwise hazardous (note the related entry on list A A4090)
- B2130 Bituminous material (asphalt waste) from road construction and maintenance, not containing tar<sup>14</sup> (note the related entry on list A, A3200)

**B3 Wastes containing principally organic constituents, which may contain metals and inorganic materials**

- EU3011<sup>15</sup> Plastic waste (note the related entry AC300 in part II of Annex IV, and the related entry EU48 in part I of Annex IV):
- Plastic waste listed below, provided it is almost free from contamination and other types of waste<sup>16</sup>:
- Plastic waste almost exclusively<sup>17</sup> consisting of one non-halogenated polymer, including but not limited to the following polymers:
    - Polyethylene (PE)
    - Polypropylene (PP)
    - Polystyrene (PS)
    - Acrylonitrile butadiene styrene (ABS)
    - Polyethylene terephthalate (PET)
    - Polycarbonates (PC)
    - Polyethers
  - Plastic waste almost exclusively<sup>18</sup> consisting of one cured resin or condensation product, including but not limited to the following resins:
    - Urea formaldehyde resins
    - Phenol formaldehyde resins
    - Melamine formaldehyde resins
    - Epoxy resins
    - Alkyd resins
  - Plastic waste almost exclusively<sup>19</sup> consisting of one of the following fluorinated polymers<sup>20</sup>:
    - Perfluoroethylene/propylene (FEP)
    - Perfluoroalkoxy alkanes:
      - Tetrafluoroethylene/perfluoroalkyl vinyl ether (PFA)
      - Tetrafluoroethylene/perfluoromethyl vinyl ether (MFA)
    - Polyvinylfluoride (PVF)
    - Polyvinylidene fluoride (PVDF)
    - Polytetrafluoroethylene (PTFE)
  - Polyvinyl chloride (PVC)

<sup>14</sup> The concentration level of Benzol (a) pyrene should not be 50mg/kg or more.

<sup>15</sup> **Entry only applies to waste shipped within the EU**  
**Entry B3011 applies to exports to and imports from third countries**  
**OECD countries may apply the deleted entry B3010**

<sup>16</sup> In relation to "almost free from contamination and other types of wastes", international and national specifications may offer a point of reference.

<sup>17</sup> In relation to "almost exclusively", international and national specifications may offer a point of reference.

<sup>18</sup> In relation to "almost exclusively", international and national specifications may offer a point of reference.

<sup>19</sup> In relation to "almost exclusively", international and national specifications may offer a point of reference.

<sup>20</sup> Post consumer wastes are excluded

- B3011<sup>22</sup> Plastic waste (note the related entry A3210, in list A of this Part, and entry Y48, in list A of Part 3)
- Plastic waste listed below, provided it is destined for recycling<sup>23</sup> in an environmentally sound manner and almost free from contamination and other types of wastes<sup>24</sup>:
    - Plastic waste almost exclusively<sup>25</sup> consisting of one non-halogenated polymer, including but not limited to the following polymers:
      - Polyethylene (PE)
      - Polypropylene (PP)
      - Polystyrene (PS)
      - Acrylonitrile butadiene styrene (ABS)
      - Polyethylene terephthalate (PET)
      - Polycarbonates (PC)
      - Polyethers
    - Plastic waste almost exclusively<sup>26</sup> consisting of one cured resin or condensation product, including but not limited to the following resins:
      - Urea formaldehyde resins
      - Phenol formaldehyde resins
      - Melamine formaldehyde resins
      - Epoxy resins
      - Alkyd resins
    - Plastic waste almost exclusively<sup>27</sup> consisting of one of the following fluorinated polymers:<sup>28</sup>
      - Perfluoroethylene/propylene (FEP)
      - Perfluoroalkoxy alkanes:
        - Tetrafluoroethylene/perfluoroalkyl vinyl ether (PFA)
        - Tetrafluoroethylene/perfluoromethyl vinyl ether (MFA)
      - Polyvinylfluoride (PVF)
      - Polyvinylidene fluoride (PVDF)
    - Mixtures of plastic waste, consisting of polyethylene (PE), polypropylene (PP) and/or polyethylene terephthalate (PET), provided they are destined for separate recycling<sup>29</sup> of each material and in an environmentally sound manner, and almost free from contamination and other types of wastes<sup>30</sup>.

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<sup>21</sup> Deleted entry:

GH013 391530 ex 390410-40 Polymers of vinyl chloride

<sup>22</sup> **Entry B3011 applies only to exports to and imports from non-OECD third countries. For shipments in the EU, EU3011 applies. OECD countries may apply the deleted entry B3010**

<sup>23</sup> Recycling/reclamation of organic substances that are not used as solvents (R3 in Annex IV, sect. B) or, if needed, temporary storage limited to one instance, provided that it is followed by operation R3 and evidenced by contractual or relevant official documentation.

<sup>24</sup> In relation to “almost free from contamination and other types of wastes”, international and national specifications may offer a point of reference.

<sup>25</sup> In relation to “almost exclusively”, international and national specifications may offer a point of reference.

<sup>26</sup> In relation to “almost exclusively”, international and national specifications may offer a point of reference.

<sup>27</sup> In relation to “almost exclusively”, international and national specifications may offer a point of reference.

<sup>28</sup> Post-consumer wastes are excluded.

<sup>29</sup> Recycling/reclamation of organic substances that are not used as solvents (R3 in Annex IV, sect. B) or, if needed, temporary storage limited to one instance, provided that it is followed by operation R3 and evidenced by contractual or relevant official documentation.

<sup>30</sup> In relation to “almost free from contamination and other types of wastes”, international and national specifications may offer a point of reference.

- B3020 Paper, paperboard and paper product wastes
- The following materials, provided they are not mixed with hazardous wastes:  
Waste and scrap of paper or paperboard of:
- unbleached paper or paperboard or of corrugated paper or paperboard
  - other paper or paperboard, made mainly of bleached chemical pulp, not coloured in the mass
  - paper or paperboard made mainly of mechanical pulp (for example, newspapers, journals and similar printed matter)
  - other, including but not limited to
    - 1) laminated paperboard
    - 2) unsorted scrap
- B3026 The following waste from the pre-treatment of composite packaging for liquids, not containing Annex I materials in concentrations sufficient to exhibit Annex III characteristics:
- Non-separable plastic fraction
  - Non-separable plastic-aluminium fraction
- B3027 Self-adhesive label laminate waste containing raw materials used in label material production
- B3030 Textile wastes
- The following materials, provided they are not mixed with other wastes and are prepared to a specification:
- Silk waste (including cocoons unsuitable for reeling, yarn waste and garnetted stock)
    - not carded or combed
    - other
  - Waste of wool or of fine or coarse animal hair, including yarn waste but excluding garnetted stock
    - noils of wool or of fine animal hair
    - other waste of wool or of fine animal hair
    - waste of coarse animal hair
  - Cotton waste (including yarn waste and garnetted stock)
    - yarn waste (including thread waste)
    - garnetted stock
    - other
  - Flax tow and waste
  - Tow and waste (including yarn waste and garnetted stock) of true hemp (*Cannabis sativa* L.)
  - Tow and waste (including yarn waste and garnetted stock) of jute and other textile bast fibres (excluding flax, true hemp and ramie)
  - Tow and waste (including yarn waste and garnetted stock) of sisal and other textile fibres of the genus *Agave*
  - Tow, noils and waste (including yarn waste and garnetted stock) of coconut
  - Tow, noils and waste (including yarn waste and garnetted stock) of abaca (*Manila hemp* or *Musa textilis* Nee)
  - Tow, noils and waste (including yarn waste and garnetted stock) of ramie and other vegetable textile fibres, not elsewhere specified or included
  - Waste (including noils, yarn waste and garnetted stock) of man-made fibres
    - of synthetic fibres
    - of artificial fibres
  - Worn clothing and other worn textile articles
  - Used rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables of textile materials
    - sorted
    - other
- B3035 Waste textile floor coverings, carpets
- B3040 Rubber wastes
- following materials, provided they are not mixed with other wastes:
- Waste and scrap of hard rubber (e.g., ebonite)

- Other rubber wastes (excluding such wastes specified elsewhere)
- B3050 Untreated cork and wood waste:
  - Wood waste and scrap, whether or not agglomerated in logs, briquettes, pellets or similar forms
  - Cork waste: crushed, granulated or ground cork
- B3060 Wastes arising from agro-food industries provided it is not infectious:
  - Wine lees
  - Dried and sterilized vegetable waste, residues and byproducts, whether or not in the form of pellets, of a kind used in animal feeding, not elsewhere specified or included
  - Degras: residues resulting from the treatment of fatty substances or animal or vegetable waxes
  - Waste of bones and horn-cores, unworked, defatted, simply prepared (but not cut to shape), treated with acid or degelatinised
  - Fish waste
  - Cocoa shells, husks, skins and other cocoa waste
  - Other wastes from the agro-food industry excluding by-products which meet national and international requirements and standards for human or animal consumption
- B3065 Waste edible fats and oils of animal or vegetable origin (e.g. frying oils), provided they do not exhibit an Annex III characteristic
- B3070 The following wastes:
  - Waste of human hair
  - Waste straw
  - Deactivated fungus mycelium from penicillin production to be used as animal feed
- B3080 Waste parings and scrap of rubber

<i>GN010</i>	<i>ex 050200</i>	<i>Waste of pigs', hogs' or boars' bristles and hair or of badger hair and other brushmaking hair</i>
<i>GN020</i>	<i>ex 050300</i>	<i>Horsehair waste, whether or not put up as a layer with or without supporting material</i>
<i>GN030</i>	<i>ex 050590</i>	<i>Waste of skins and other parts of birds, with their feathers or down, of feathers and parts of feathers (whether or not with trimmed edges) and down, not further worked than cleaned, disinfected or treated for preservation</i>

- B3090 Paring and other wastes of leather or of composition leather not suitable for the manufacture of leather articles, excluding leather sludges, not containing hexavalent chromium compounds and biocides (note the related entry on list A A3100)
- B3100 Leather dust, ash, sludges or flours not containing hexavalent chromium compounds or biocides (note the related entry on list A A3090)
- B3110 Fellmongery wastes not containing hexavalent chromium compounds or biocides or infectious substances (note the related entry on list A A3110)
- B3120 Wastes consisting of food dyes
- B3130 Waste polymer ethers and waste non-hazardous monomer ethers incapable of forming peroxides
- B3140 Waste pneumatic tyres, excluding those destined for Annex IVA operations

#### **B4 Wastes which may contain either inorganic or organic constituents**

- B4010 Wastes consisting mainly of water-based/latex paints, inks and hardened varnishes not containing organic solvents, heavy metals or biocides to an extent to render them hazardous (note the related entry on list A A4070)
- B4020 Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives, not listed on list A, free of solvents and other contaminants to an extent that they do not exhibit Annex III characteristics, e.g., water-based, or glues based on casein starch, dextrin, cellulose ethers, polyvinyl alcohols (note the related entry on list A A3050)



## ANNEX IIIA

### MIXTURES OF TWO OR MORE WASTES LISTED IN ANNEX III AND NOT CLASSIFIED UNDER ONE SINGLE ENTRY AS REFERRED TO IN ARTICLE 3(2)

1. Regardless of whether or not mixtures are included on this list, they may not be subject to the general information requirements laid down in Article 18 if they are contaminated by other materials to an extent which:
  - (a) increases the risks associated with the wastes sufficiently to render them appropriate for submission to the procedure of prior written notification and consent, when taking into account the hazardous characteristics listed in Annex III to Directive 91/689/EEC; or
  - (b) prevents the recovery of the wastes in an environmentally sound manner.
  
2. The following mixtures of waste are included in this Annex:
  - (a) mixtures of waste classified under Basel entries B1010 and B1050;
  - (b) mixtures of waste classified under Basel entries B1010 and B1070;
  - (c) mixtures of wastes classified under Basel entries B3040 and B3080;
  - (d) mixtures of waste classified under (OECD) entry GB040 and under Basel entry B1100 restricted to hard zinc spelter, zinc-containing drosses, aluminium skimmings (or skims) excluding salt slag and wastes of refractory linings, including crucibles, originating from copper smelting;
  - (e) mixtures of waste classified under (OECD) entry GB040, under Basel entry B1070 and under Basel entry B1100 restricted to wastes of refractory linings, including crucibles, originating from copper smelting.

The entries referred to in points (d) and (e) shall not apply for exports to countries to which the OECD Decision does not apply.

3. The following mixtures of wastes classified under separate indents or sub-indents of one single entry are included in this Annex:
  - (a) mixtures of wastes classified under Basel entry B1010;
  - (b) mixtures of wastes classified under Basel entry B2010;
  - (c) mixtures of wastes classified under Basel entry B2030;
  - d) bis f) have been deleted
  - (g) mixtures of wastes classified under Basel entry B3020 restricted to unbleached paper or paperboard or of corrugated paper or paperboard, other paper or paperboard, made mainly of bleached chemical pulp, not coloured in the mass, paper or paperboard made mainly of mechanical pulp (for example, newspapers, journals and similar printed matter);
  - (h) mixtures of wastes classified under Basel entry B3030;
  - (i) mixtures of wastes classified under Basel entry B3040;
  - (j) mixtures of wastes classified under Basel entry B3050.

4. The following mixtures of wastes classified under separate indents or sub-indents of one single entry are included in this Annex only for the purposes of shipments within the Union:
- (a) mixtures of wastes classified under entry EU3011 and listed under the indent referring to non-halogenated polymers;
  - (b) mixtures of wastes classified under entry EU3011 and listed under the indent referring to cured resins or condensation products;
  - (c) mixtures of wastes classified under entry EU3011 and listed under "perfluoroalkoxy alkanes";

## ANNEX IIIB

### ADDITIONAL GREEN LISTED WASTE AWAITING INCLUSION IN THE RELEVANT ANNEXES TO THE BASEL CONVENTION OR THE OECD DECISION AS REFERRED TO IN ARTICLE 58(1)(B)

1. Regardless of whether or not wastes are included on this list, they may not be subject to the general information requirements laid down in Article 18 if they are contaminated by other materials to an extent which:
  - (a) increases the risks associated with the wastes sufficiently to render them appropriate for submission to the procedure of prior written notification and consent, when taking into account the hazardous characteristics listed in Annex III to Directive 2008/98/EC of the European Parliament and of the Council<sup>31</sup>; or
  - (b) prevents the recovery of the wastes in an environmentally sound manner.
2. The following wastes are included in this Annex:

*BEU04 Composite packaging consisting of mainly paper and some plastic, not containing residues and not covered by Basel entry B3020*

*BEU05 Clean biodegradable waste from agriculture, horticulture, forestry, gardens, parks and cemeteries*

3. The shipments of waste listed in this Annex are without prejudice to the provisions of Council Directive 2000/29/EC<sup>32</sup>, including measures adopted pursuant to Article 16(3) thereof.

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<sup>31</sup> OJ L 312, 22.11.2008, p. 3.

<sup>32</sup> OJ L 169, 10.7.2000, p. 1.

## ANNEX IV

### LIST OF WASTES SUBJECT TO THE PROCEDURE OF PRIOR WRITTEN NOTIFICATION AND CONSENT ("AMBER" LISTED WASTE)<sup>33</sup>

The following wastes will be subject to the procedure of prior written notification and consent:

Wastes listed in Annexes II and VIII to the Basel Convention<sup>34</sup>

#### Annex II Basel Convention

- Y46 Wastes collected from households<sup>35</sup>  
Y47 Residues arising from the incineration of household wastes

*EU48<sup>36</sup> Plastic waste not covered by entry AC300 in part II or by entry EU3011 in part I of Annex III, as well as mixtures of plastic waste not covered by point 4 of Annex IIIA.*

- Y48<sup>37</sup> Plastic waste, including mixtures of such waste, with the exception of the following:
- Plastic waste that is hazardous waste (see entry A3210 in part 1 of list A in Annex V)
  - Plastic waste listed below, provided it is destined for recycling<sup>38</sup> in an environmentally sound manner and almost free from contamination and other types of wastes:<sup>39</sup>
    - Plastic waste almost exclusively<sup>40</sup> consisting of one non-halogenated polymer, including but not limited to the following polymers:
      - Polyethylene (PE)
      - Polypropylene (PP)
      - Polystyrene (PS)
      - Acrylonitrile butadiene styrene (ABS)
      - Polyethylene terephthalate (PET)
      - Polycarbonates (PC)
      - Polyethers
    - Plastic waste almost exclusively<sup>41</sup> consisting of one cured resin or condensation product, including but not limited to the following resins:
      - Urea formaldehyde resins
      - Phenol formaldehyde resins
      - Melamine formaldehyde resins
      - Epoxy resins
      - Alkyd resins

<sup>33</sup> any reference to List B in Annex VIII to the Basel Convention shall be understood as a reference to Annex III of the WSR

<sup>34</sup> Annex VIII to the Basel Convention is listed in this Regulation in Annex V, Part 1, List A. Annex II to the Basel Convention is listed in this Regulation in Annex V, Part 3, List A.

<sup>35</sup> unless appropriately classified under a single entry in Annex III.

<sup>36</sup> **Entry only applies to waste shipped within the Union**

<sup>37</sup> In relation to "almost free from contamination and other types of wastes", international and national specifications may offer a point of reference.

<sup>38</sup> Recycling/reclamation of organic substances that are not used as solvents (R3 in Annex IV, sect. B) or, if needed, temporary storage limited to one instance, provided that it is followed by operation R3 and evidenced by contractual or relevant official documentation.

<sup>39</sup> In relation to "almost free from contamination and other types of wastes", international and national specifications may offer a point of reference.

<sup>40</sup> In relation to "almost exclusively", international and national specifications may offer a point of reference.

<sup>41</sup> In relation to "almost exclusively", international and national specifications may offer a point of reference.

- Plastic waste almost exclusively<sup>42</sup> consisting of one of the following fluorinated polymers:<sup>43</sup>
  - Perfluoroethylene/propylene (FEP)
  - Perfluoroalkoxy alkanes:
    - Tetrafluoroethylene/perfluoroalkyl vinyl ether (PFA)
    - Tetrafluoroethylene/perfluoromethyl vinyl ether (MFA)
  - Polyvinylfluoride (PVF)
  - Polyvinylidene fluoride (PVDF)
- Mixtures of plastic waste, consisting of polyethylene (PE), polypropylene (PP) and/or polyethylene terephthalate (PET), provided they are destined for separate recycling<sup>44</sup> of each material and in an environmentally sound manner, and almost free from contamination and other types of wastes<sup>45</sup>.

Y49<sup>46</sup>

- Electrical and electronic waste:
- Waste electrical and electronic equipment
    - not containing and not contaminated with Annex I constituents to an extent that the waste exhibits an Annex III characteristic, and
    - in which none of the components (e.g. certain circuit boards, certain display devices) contain or are contaminated with Annex I constituents to an extent that the component exhibits an Annex III characteristic
  - Waste components of electrical and electronic equipment (e.g. certain circuit boards, certain display devices) not containing and not contaminated with Annex I constituents to an extent that the waste components exhibit an Annex III characteristic, unless covered by another entry in Annex II or by an entry in Annex IX
  - Wastes arising from the processing of waste electrical and electronic equipment or waste components of electrical and electronic equipment (e.g. fractions arising from shredding or dismantling), and not containing and not contaminated with Annex I constituents to an extent that the waste exhibits an Annex III characteristic, unless covered by another entry in Annex II or by an entry in Annex IX.

### List A (Annex VIII of Basel Convention)

#### **A1 Metal and metal-bearing wastes**

A1010 Metal wastes and waste consisting of alloys of any of the following:

- Antimony
- Arsenic
- Beryllium
- Cadmium
- Lead
- Mercury
- Selenium
- Tellurium
- Thallium

but excluding such wastes specifically listed on list B *under entry B1020, and which are in non-dispersible form*<sup>47</sup>

<sup>42</sup> In relation to “almost exclusively”, international and national specifications may offer a point of reference.

<sup>43</sup> Post-consumer wastes are excluded

<sup>44</sup> Recycling/reclamation of organic substances that are not used as solvents (R3 in Annex IV, sect. B) or, if needed, temporary storage limited to one instance, provided that it is followed by operation R3 and evidenced by contractual or relevant official documentation.

<sup>45</sup> In relation to “almost free from contamination and other types of wastes”, international and national specifications may offer a point of reference.

<sup>46</sup> **For waste shipped within the Union, Basel entry Y49 shall not apply and entries GC010 and GC020 in Annex III Part II shall apply instead where appropriate.**

<sup>47</sup> as footnote 3

- A1020 Waste having as constituents or contaminants, excluding metal waste in massive form, any of the following:
- Antimony; antimony compounds
  - Beryllium; beryllium compounds
  - Cadmium; cadmium compounds
  - Lead; lead compounds
  - Selenium; selenium compounds
  - Tellurium; tellurium compounds
- A1030 Wastes having as constituents or contaminants any of the following:
- Arsenic; arsenic compounds
  - Mercury; mercury compounds
  - Thallium; thallium compounds
- A1040 Wastes having as constituents any of the following:
- Metal carbonyls
  - Hexavalent chromium compounds

AA010	261900	<i>Dross, scalings and other wastes from the manufacture of iron and steel<sup>48</sup></i>
AA060	262050	<i>Vanadium ashes and residues<sup>49</sup></i>
AA190	810420 ex 810430	<i>Magnesium waste and scrap that is flammable, pyrophoric or emits, upon contact with water, flammable gases in dangerous quantities</i>

- A1050 Galvanic sludges
- A1060 Waste liquors from the pickling of metals
- A1070 Leaching residues from zinc processing, dust and sludges such as jarosite, hematite, etc.
- A1080 Waste zinc residues not included on list B, containing lead and cadmium in concentrations sufficient to exhibit Annex III characteristics
- A1090 Ashes from the incineration of insulated copper wire
- A1100 Dusts and residues from gas cleaning systems of copper smelters
- A1110 Spent electrolytic solutions from copper electrorefining and electrowinning operations
- A1120 Waste sludges, excluding anode slimes, from electrolyte purification systems in copper electrorefining and electrowinning operations
- A1130 Spent etching solutions containing dissolved copper
- A1140 Waste cupric chloride and copper cyanide catalysts
- A1150 Precious metal ash from incineration of printed circuit boards not included on list B<sup>50</sup>
- A1160 Waste lead-acid batteries, whole or crushed
- A1170 Unsorted waste batteries excluding mixtures of only list B batteries. Waste batteries not specified on list B containing Annex I constituents to an extent to render them hazardous

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<sup>48</sup> This listing includes wastes in the form of ash, residue, slag, dross, skimming, scaling, dust, powder, sludge and cake, unless a material is expressly listed elsewhere.

<sup>49</sup> as mentioned in the above footnote

<sup>50</sup> Note that mirror entry on list B (B1160) does not specify exceptions.

- A1181 Electrical and electronic waste (note the related entry Y49 in List A of Part 3 in Annex V):
- Waste electrical and electronic equipment
    - containing or contaminated with cadmium, lead, mercury, organohalogen compounds or other Annex I constituents to an extent that the waste exhibits an Annex III characteristic, or
    - with a component containing or contaminated with Annex I constituents to an extent that the component exhibits an Annex III characteristic, including but not limited to any of the following components:
      - glass from cathode-ray tubes included on list A
      - a battery included on list A
      - a switch, lamp, fluorescent tube or a display device backlight which contains mercury
      - a capacitor containing PCBs
      - a component containing asbestos
      - certain circuit boards
      - certain display devices
      - certain plastic components containing a brominated flame retardant
    - Waste components of electrical and electronic equipment containing or contaminated with Annex I constituents to an extent that the waste components exhibit an Annex III characteristic, unless covered by another entry on list A
    - Wastes arising from the processing of waste electrical and electronic equipment or waste components of electrical and electronic equipment, and containing or contaminated with Annex I constituents to an extent that the waste exhibits an Annex III characteristic (e.g. fractions arising from shredding or dismantling), unless covered by another entry on list A;
- A1190 Waste metal cables coated or insulated with plastics containing or contaminated with coal tar, PCB<sup>51</sup>, lead, cadmium, other organohalogen compounds or other Annex I constituents to an extent that they exhibit Annex III characteristics.

**A2 Wastes containing principally inorganic constituents, which may contain metals and organic materials**

- A2010 Glass waste from cathode-ray tubes and other activated glasses
- A2020 Waste inorganic fluorine compounds in the form of liquids or sludges but excluding such wastes specified on list B
- A2030 Waste catalysts but excluding such wastes specified on list B
- A2040 Waste gypsum arising from chemical industry processes, when containing Annex I constituents to the extent that it exhibits an Annex III hazardous characteristic (note the related entry on list B B2080)
- A2050 Waste asbestos (dusts and fibres)

*RB020 ex 6815 Ceramic-based fibres of physico-chemical characteristics similar to those of asbestos*

*A2060 The entry A2060 of Basel convention does not apply<sup>52</sup> and OECD entry GG040 applies instead when appropriate<sup>53</sup>*

*AB030 Wastes from non-cyanide based systems which arise from surface treatment of metals*

*AB070 Sands used in foundry operations*

*AB120<sup>54</sup> ex 281290 Inorganic halide compounds, not elsewhere specified or included*  
*ex 3824*

*AB130 Used blasting grit*

<sup>51</sup> PCBs are at a concentration level of 50 mg/kg or more.

<sup>52</sup> entry in the Basel list not applied:

"A2060 Coal-fired power plant fly-ash containing Annex I substances in concentrations sufficient to exhibit Annex III characteristics (note the related entry on list B B2050)"

<sup>53</sup> OECD Member countries may control these wastes differently in accordance with Chapter II B 6 of Decision C(2001) 107/FINAL concerning wastes not listed in Appendices 3 or 4, and the chapeau of Appendix 3 to the OECD Decision. Concerning this the Correspondence meeting of EU has approved Correspondence Guideline No 4.

<sup>54</sup> This entry includes spent potlinings from aluminium smelting without inorganic cyanides but containing Y32, inorganic fluorine compounds excluding calcium fluoride.

<i>AB150</i>	<i>ex 382490</i>	<i>Unrefined calcium sulphite and calcium sulphate from flue gas desulphurization (FGD)</i>
<b>A3</b>	<b>Wastes containing principally organic constituents, which may contain metals and inorganic materials</b>	
A3010	Waste from the production or processing of petroleum coke and bitumen	
A3020	Waste mineral oils unfit for their originally intended use	
A3030	Wastes that contain, consist of or are contaminated with leaded anti-knock compound sludges	
A3040	Waste thermal (heat transfer) fluids	
<i>AC060</i>	<i>ex 381900</i>	<i>Hydraulic fluids</i>
<i>AC070</i>	<i>ex 381900</i>	<i>Brake fluids</i>
<i>AC080</i>	<i>ex 382000</i>	<i>Antifreeze fluids</i>
A3050	Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives excluding such wastes specified on list B (note the related entry on list B B4020)	
A3060	Waste nitrocellulose	
A3070	Waste phenols, phenol compounds including chlorophenol in the form of liquids or sludges	
A3080	Waste ethers not including those specified on list B	
<i>AC150</i>	<i>Chlorofluorocarbons</i>	
<i>AC160</i>	<i>Halons</i>	
<i>AC250</i>	<i>Surface active agents (surfactants)</i>	
A3090	Waste leather dust, ash, sludges and flours when containing hexavalent chromium compounds or biocides (note the related entry on list B B3100)	
A3100	Waste paring and other waste of leather or of composition leather not suitable for the manufacture of leather articles containing hexavalent chromium compounds or biocides (note the related entry on list B B3090)	
A3110	Fellmongery wastes containing hexavalent chromium compounds or biocides or infectious substances (note the related entry on list B B3110)	
A3120	FLUFF — light fraction from shredding	
<i>AC170</i>	<i>ex 440310</i>	<i>Treated cork and wood wastes</i>
<i>AC260</i>	<i>ex 3101</i>	<i>Liquid pig manure; faeces</i>
<i>AC270</i>	<i>Liquid pig manure; faeces</i>	
<i>AC300<sup>55</sup></i>	<i>Plastic waste, including mixtures of such wastes, containing or contaminated with Annex I constituents, to an extent that it exhibits an Annex III characteristic (note the related entry EU3011 in part I of Annex III, and the related entry EU48 in part I)</i>	
A3130	Waste organic phosphorous compounds	
A3140	Waste non-halogenated organic solvents but excluding such wastes specified on list B	
A3150	Waste halogenated organic solvents	
A3160	Waste halogenated or unhalogenated non-aqueous distillation residues arising from organic solvent recovery operations	
A3170	Wastes arising from the production of aliphatic halogenated hydrocarbons (such as chloromethane, dichloro-ethane, vinyl chloride, vinylidene chloride, allyl chloride and epichlorhydrin)	

<sup>55</sup> Applies to shipments within the EU and OECD.

For shipments with non-OECD third countries, A3210 applies.



- A3180 Wastes, substances and articles containing, consisting of or contaminated with polychlorinated biphenyl (PCB), polychlorinated terphenyl (PCT), polychlorinated naphthalene (PCN) or polybrominated biphenyl (PBB), or any other polybrominated analogues of these compounds, at a concentration level of 50 mg/kg or more<sup>56</sup>
- A3190 Waste tarry residues (excluding asphalt cements) arising from refining, distillation and any pyrolytic treatment of organic materials
- A3200 Bituminous material (asphalt waste) from road construction and maintenance, containing tar (note the related entry on list B, B2130)
- A3210<sup>57</sup> Plastic waste, including mixtures of such waste, containing or contaminated with Annex I constituents, to an extent that it exhibits an Annex III characteristic (note the related entry B3011, in list B of this Part, and entry Y48, in list A of Part 3)

**A4 Wastes which may contain either inorganic or organic constituents**

- A4010 Wastes from the production, preparation and use of pharmaceutical products but excluding such wastes specified on list B
- A4020 Clinical and related wastes; that is wastes arising from medical, nursing, dental, veterinary, or similar practices, and wastes generated in hospitals or other facilities during the investigation or treatment of patients, or research projects
- A4030 Wastes from the production, formulation and use of biocides and phytopharmaceuticals, including waste pesticides and herbicides which are off-specification, outdated,<sup>58</sup> or unfit for their originally intended use
- A4040 Wastes from the manufacture, formulation and use of wood-preserving chemicals<sup>59</sup>
- A4050<sup>60</sup> Wastes that contain, consist of or are contaminated with any of the following:
- Inorganic cyanides, excepting precious-metal-bearing residues in solid form containing traces of inorganic cyanides
  - Organic cyanides
- A4060 Waste oils/water, hydrocarbons/water mixtures, emulsions
- A4070 Wastes from the production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish excluding any such waste specified on list B (note the related entry on list B B4010)

<i>AD090</i>	<i>ex 382490</i>	<i>Wastes from production, formulation and use of reprographic and photographic chemicals and materials not elsewhere specified or included</i>
<i>AD100</i>		<i>Wastes from non-cyanide based systems which arise from surface treatment of plastics</i>
<i>AD120</i>	<i>ex 391400</i> <i>ex 3915</i>	<i>Ion exchange resins</i>

- A4080 Wastes of an explosive nature (but excluding such wastes specified on list B)
- A4090 Waste acidic or basic solutions, other than those specified in the corresponding entry on list B (note the related entry on list B B2120)
- A4100 Wastes from industrial pollution control devices for cleaning of industrial off-gases but excluding such wastes specified on list B

*AD150 Naturally occurring organic material used as a filter medium (such as bio-filters)*

<sup>56</sup> The 50 mg/kg level is considered to be an internationally practical level for all wastes. However, many individual countries have established lower regulatory levels (e.g., 20 mg/kg) for specific wastes.

<sup>57</sup> **Entry only applies to import from non-OECD third countries, export to non-OECD third countries is prohibited.**

**In the EU and OECD the entry AC300 applies**

<sup>58</sup> "Outdated" means unused within the period recommended by the manufacturer

<sup>59</sup> This entry does not include wood treated with wood preserving chemicals.

<sup>60</sup> This entry includes spent potlinings from aluminium smelting containing Y33, inorganic cyanides. If the cyanides have been destroyed, spent potlinings are assigned to Part II entry AB120 because they contain Y32, inorganic fluorine compounds excluding calcium fluoride.

- A4110 Wastes that contain, consist of or are contaminated with any of the following:
- Any congener of polychlorinated dibenzo-furan
  - Any congener of polychlorinated dibenzo-dioxin
- A4120 Wastes that contain, consist of or are contaminated with peroxides
- A4130 Waste packages and containers containing Annex I substances in concentrations sufficient to exhibit Annex III hazard characteristics
- A4140 Waste consisting of or containing off specification or outdated<sup>61</sup> chemicals corresponding to Annex I categories and exhibiting Annex III hazard characteristics
- A4150 Waste chemical substances arising from research and development or teaching activities which are not identified and/or are new and whose effects on human health and/or the environment are not known
- A4160 Spent activated carbon not included on list B (note the related entry on list B B2060)

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<sup>61</sup> "Outdated" means unused within the period recommended by the manufacturer