

SUPERCOMPACTION SPECIFICATION FOR SOLID LOW LEVEL WASTE

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PART 1 – General specification (applicable to all drums)

All solid low-level waste for high force compaction must be contained in 200 litre mild steel drums or drums unless otherwise agreed with Tradebe Inutec:

- Non-fixed contamination levels on the external surfaces of any drum or transport container shall not exceed 4 Bq/cm² for beta and gamma emitters and 0.4 Bq/cm² for all other alpha emitters (averaged over an area of 300cm²).
- No drum shall be more than 910 mm in height or more than 620 mm overall diameter, including lid retaining band.
- No drum shall contain massive items that could jam the mould in the compaction chamber, e.g. solid metallic bars of length greater than 550 mm and diameter of between 60 and 250 mm.
- No drum shall be more than two years old from the time of packing.
- Each drum shall be marked with a unique identification number; there should only be one such number on each drum, to be located on both the lid and side of a drum, and the numbering system used should be similar for all drums.
- The consignment should be packaged in such a way as to render it in so far as reasonable practical insoluble in water.

The following items / materials shall be **excluded** from each drum:

- Free liquids¹, Liquids with flashpoint less than 21°C absorbed on solid material, Non-aqueous liquids absorbed on solid material.
- Metals and other materials which readily react either with water or air with the evolution of heat or flammable gases.
- Toxic gases, vapours, or fumes harmful to people or materials that may present an explosive hazard
- Materials which generate or are capable of generating harmful toxic gases, vapours or fumes.
- Strong oxidising agents.
- Pressurised gas cylinders or pressurised aerosol containers.
- Chemical complexing agents or chelating agents, such as EDTA, citric acid, amines and phosphines.
- Biological, pathogenic or infectious materials listed within Hazard Groups 2, 3 and 4².
- Putrescible materials (materials liable to be readily decomposed by micro-organisms, excluding wood and paper).
- Ion exchange materials.
- Sealed sources.
- Hazardous waste and non-hazardous pollutants other than asbestos and lead, as defined in the Hazardous Waste Regulations³, unless agreed in advance with Tradebe Inutec.
- Active Particles¹ in the size range of 0.6 to 2.0 mm of high-specific activity material such that a single particle could bear of the order of 1 MBq or more of alpha-emitting radionuclides or 0.01MBq or more of radium-226. Typically more than about 100 MBq g⁻¹ of most alpha-emitting radionuclides or 10MBq g⁻¹ of radium-226, e.g. fragments of Admiralty specification radium-sulphide paint, fragments of irradiated nuclear fuel (especially PWR, MOX or highly-enriched uranium fuels) or plutonium.

¹ As defined in LLWR WAC

² Control of Substances Hazardous to Health Regulations 2002.

³ Hazardous Waste (England & Wales) Regulations 2005, No. 894.

PART 1 – General specification (applicable to all drums) continued

Drummed re-assertable waste, shredded waste and pre-compacted waste

Drums containing only re-assertable waste may be consigned for treatment and disposal in accordance with the following requirements:

Drums of re-assertable waste shall be segregated into two weight bands:

- Weight Band 1 – Total Drum Weight up to 100 kg
- Weight Band 2 – Total Drum Weight from 101 kg up to 140 kg

Drums of re-assertable waste shall be labelled Weight Band 1 or Weight Band 2 on the lid and the side of the drum.

The number of re-assertable waste drums, drums containing shredded waste or pre-compacted in a consignment must be recorded.

Fissile radionuclides

Specific restrictions will be determined through the Waste Enquiry Process. The total weight of fissile material on the Service Supplier's site is limited to 300g under a critical safety assessment, this needs to be controlled appropriately, thus the below limits have been set.

Details on the fissile material content of the waste must be provided as early as possible so that the potential impact on criticality safety can be managed by Tradebe Inutec. The following criteria provide a general guide:

Fissile Material Limits

Fissile material content			
≤5 g	>5 g ≤15 g	>15g ≤ 180g U-235 + Pu-239 + U-233 (U-233 is calculated in U-235 equivalents where U-233 g x2 = U-235g) or	> 180g ≤ 300g U-235 + Pu-239 + U-233 (U-233 is calculated in U-235 equivalents where U-233 g x2 = U-235g) or
Likely to be acceptable at short notice	Likely to be acceptable subject to scheduling to keep within site limit	Likely to be acceptable but will be assessed and approved on a case by case basis depending on current site holdings	Potentially acceptable with written permission from Tradebe Inutec also subject to scheduling

Physical/chemical composition of the waste

To comply with the Low-Level Waste Repository (LLWR) Waste Acceptance Criteria (WAC) we require an estimate of the physical/chemical composition of the contents of **each drum of waste** in terms of the proportion, by weight, of components (within an accuracy of approximately 5% by mass); if all drums contain similar waste, a total estimate for the collection of drums is sufficient:

PART 2 – Additional specification dependent on waste type

In addition to the general specification listed in Part 1, which shall apply to all drums of waste, one of the following four additional specification requirements shall also apply to each drum of waste, depending on the waste content. In some instances, it may be possible to vary these requirements – please contact us if you need to discuss any such variation:

Part 2a - General waste

- No drum shall contain powders such as ash in quantities greater than 1 kg; in addition, any material which may produce a dust as a result of the supercompaction process, shall be packed in a sealed cotton tailored bag, e.g. glass, concrete, rubble.
- No drum shall weigh more than 200 kg unless agreed otherwise
- No individual drum shall have a maximum surface dose rate of greater than 3 mSv hr⁻¹. The dose rate must be clearly recorded for each drum. Specific restrictions may apply to the consignment as a whole.
- No drum shall contain more than 1% by volume of sorbed liquids.
- Radioactivity Limits

Radionuclides	Radioactive content		
	Acceptable	Likely to be acceptable ⁴	Possibly acceptable ⁵ (per consignment)
Total alpha	0.05 GBq/drum	0.10 GBq/drum	≤4 GBq/tonne
Total beta/gamma	3.00 GBq/drum	5.00 GBq/drum	≤12 GBq/tonne

Part 2b – Drums containing asbestos

- The waste shall be sealed within double-bagged PVC containment and packed into each drum fitted with a tailored cotton bag; the cotton bag must be sealed after loading the waste by pulling the draw string tight and tying the loose cord tightly around the neck of the bag or alternatively sealed using a cable tie.
- Each drum shall be clearly identified as containing asbestos waste.
- No drum shall weigh more than 100 kg unless agreed otherwise.
- No drum shall have a maximum surface dose rate of greater than 100 μSv hr⁻¹. The dose rate shall be clearly recorded for each drum.
- No drum shall contain more than 5% by volume of sorbed liquids.
- No drum shall contain powders such as ash in quantities greater than 1 kg (note that the asbestos will not be considered as a powder in this respect).
- Radioactivity Limits

Radionuclides	Radioactive content		
	Acceptable	Likely to be acceptable ⁴	Possibly acceptable ⁵ (per consignment)
Total alpha	0.05 GBq/drum	0.10 GBq/drum	≤4 GBq/tonne
Total beta/gamma	3.00 GBq/drum	5.00 GBq/drum	≤12 GBq/tonne

Part 2c - Drums containing > 1 kg incinerator ash / powders

- The ash/powder must be contained in a sealed, tailored cotton bag within the drum; in addition, any other material which may produce a dust as a result of the supercompaction process, shall be packed in a sealed, tailored cotton bag, e.g. glass, concrete, rubble.
- Each drum must be clearly identified as containing incinerator ash / powdered waste.
- No drum shall weigh more than 200 kg.

⁴ Likely to be acceptable but needs consideration and approval by Site Safety Manager.

⁵ Will need a review of specific hazards by Site Safety Manager, may be possible to accept with more information.

- d) No drum shall have a maximum surface dose rate of greater than 3 mSv hr⁻¹. The dose rate must be clearly recorded for each drum.
- e) Radioactivity limits

Type of waste	Radioactive content		
	Acceptable	Likely to be acceptable ⁴	Possibly acceptable ⁵ (per consignment)
Powder/Incinerator ash			
Total alpha	10 MBq/drum	20 MBq/drum	≤4 GBq/tonne
Total beta/gamma	600 MBq/drum	1000 MBq/drum	≤12 GBq/tonne

Part 2d - Drums containing HEPA Filters

- a) No filter shall have a maximum surface dose rate of greater than 1 mSvhr⁻¹. This dose rate must be clearly recorded for each filter.
- b) No drum shall contain hazardous wastes, as defined in the Hazardous Waste Regulations.
- c) No filter shall contain powder in quantities greater than 1 kg.
- d) No filter shall be more than two years old from the time of generation, subject to negotiation.
- e) Each filter shall be marked with a unique identification number; there should only be one such number on each filter and the numbering system used should be similar for all filters from one supplier.
- f) Each filter should be double-wrapped in PVC only.
- g) Each filter, together with its wrapping, should have maximum dimensions not exceeding 645 mm high x 660 mm wide x 300 mm deep.
- h) Radioactivity limits

Radionuclides	Radioactive content		
	Acceptable	Likely to be acceptable ⁴	Possibly acceptable ⁵ (per consignment)
Total alpha	0.05 GBq/drum	0.10 GBq/drum	≤4 GBq/tonne
Total beta/gamma	3.00 GBq/drum	5.00 GBq/drum	≤12 GBq/tonne

Part 2e Drums containing beryllium contaminated waste

- i) No drum shall weigh more than 200 kg.
- j) No drum shall contain more than 1 wt % beryllium with respect to the total weight of waste material within a drum.
- k) No drum shall have a maximum surface dose rate of greater than 2 mSv hr⁻¹. The dose rate must be clearly recorded for each drum.

Radionuclides	Radioactive content		
	Acceptable	Likely to be acceptable ⁴	Possibly acceptable ⁵ (per consignment)
Total alpha	0.05 GBq/drum	0.10 GBq/drum	≤4 GBq/tonne
Total beta/gamma	3.00 GBq/drum	5.00 GBq/drum	≤12 GBq/tonne

⁴ Likely to be acceptable but needs consideration and approval by Site Safety Manager.

⁵ Will need a review of specific hazards by Site Safety Manager, may be possible to accept with more information.

AUDIT QUESTIONNAIRE COVERING CONFORMANCE WITH THE SUPERCOMPACTOR CONDITIONS FOR ACCEPTANCE (CFA)

Customer Name:

Proposed Waste for Supercompaction:

Specification covered (please state number of drums in each category):

General waste

Waste containing asbestos

Waste containing > 1 kg ash / powder

Completed by: **Position:**

Signed: **Date:**

PART 1 - Questions for all waste

- Q1.1 How do you ensure that the non-fixed contamination levels on the external surfaces of any drum do not exceed 4 Bq/cm² for beta and gamma emitters and low toxicity alpha emitters and 0.4 Bq/cm² for all other alpha emitters?
- Q1.2 How do you ensure that each drum is no more than 910 mm in height and no more than 620 mm overall diameter (including lid retaining band)?
- Q1.3 What Quality Control procedures and processes are in place to ensure that the waste does not contain massive items that could jam the mould in the compaction chamber?
- Q1.4 How do you ensure that the date on which each drum was packed is accurately recorded?
- Q1.5 How do you ensure that items / materials excluded under the specification are not included in the drums?

Q1.6 How do you measure and record the weight of a drum and ensure it is below the required value?

Q1.7 How do you measure and record the dose rate and contamination level on the surface of each drum and ensure the values are below the required limits?

Q1.8 How do you measure the alpha content of the waste and ensure it is below the required value, including specific radionuclide limits?

Q1.9 How do you measure the total non-alpha activity content of the waste and ensure it is below the required value, including specific radionuclide limits?

Q1.10 Please confirm on this checklist:

Initials

- | | |
|--|----------------------|
| a) All solid low-level waste for high force compaction must be contained in 200 litre mild steel drums or drums otherwise agreed with Tradebe Inutec | <input type="text"/> |
| b) No drum shall have non-fixed contamination levels on the external surfaces exceeding 4 Bq/cm ² for beta and gamma emitters and low toxicity alpha emitters and 0.4 Bq/cm ² for all other alpha emitters | <input type="text"/> |
| c) No drum shall be more than 910 mm in height | <input type="text"/> |
| d) No drum shall be more than 620 mm overall diameter, including lid retaining band | <input type="text"/> |
| e) No drum shall contain massive items that could jam the mould in the compaction chamber, e.g. solid metallic bars of length greater than 550 mm and diameter of between 60 and 250 mm | <input type="text"/> |
| f) No drum shall be more than two years old from the time of packing, subject to negotiation | <input type="text"/> |
| g) Each drum shall be marked with a unique identification number; there should only be one such number on each drum, to be located on both the lid and side of a drum, and the numbering system used should be similar for all drums | <input type="text"/> |

The following items / materials are **excluded** from each drum:

- | | |
|---|----------------------|
| a) Free liquids | <input type="text"/> |
| b) Liquids with flashpoint less than 21 °C absorbed on solid material | <input type="text"/> |

- c) Metals and other materials which readily react either with water or air with the evolution of heat or flammable gases
- d) Materials that present an explosive hazard
- e) Materials which generate or are capable of generating harmful toxic gases, vapours or fumes
- f) Strong oxidising agents / conditioned Corrosive Materials
- g) Pressurised gas cylinders or pressurised aerosol containers
- h) Chemical complexing agents or chelating agents, such as EDTA, citric acid, amines and phosphines
- i) Biological, pathogenic or infectious materials listed within Hazard Groups 2, 3 and 422 above
- j) Putrescible materials (materials liable to be readily decomposed by micro-organisms, excluding wood and paper)
- k) Non-aqueous liquids absorbed on solid material
- l) Ion exchange materials
- m) Sealed sources
- n) Hazardous waste other than asbestos, beryllium and lead, as defined in the Hazardous Waste Regulations³, unless agreed in advance with Tradebe Inutec
- o) Active Particles¹ in the size range of 0.6 to 2.0 mm of high-specific activity material such that a single particle could bear of the order of 1 MBq or more of alpha-emitting radionuclides or 0.01MBq or more of radium-226. typically more than about 100 MBq g-1 of most alpha-emitting radionuclides or 10MBq g-1 of radium-226. e.g. fragments of Admiralty specification radium-sulphide paint, fragments of irradiated nuclear fuel (especially PWR, MOX or highly-enriched uranium fuels) or plutonium.

¹ As defined in LLWR WAC

² Control of Substances Hazardous to Health Regulations 2002.

³ Hazardous Waste (England & Wales) Regulations 2005, No. 894.

PART 2 – Additional questions dependent on waste type

COMPLETE PART 2a OR 2b OR 2c or 2d AS APPROPRIATE

Part 2a – General Waste

Q2a.1 What Quality Control procedures and processes are in place to ensure that no drum contains more than 1% by volume of sorbed liquids?

Q2a.2 What Quality Control procedures and processes are in place to ensure that the waste does not contain powders, such as ash, in quantities greater than 1 kg per drum, or waste which may generate dust upon supercompaction is contained in a sealed, tailored cotton bag within each drum?

Q2a.3 Please confirm on this checklist:

Initials

- a) No drum shall contain powders such as ash in quantities greater than 1 kg; in addition any material which may produce a dust as a result of the supercompaction process shall be packed in a sealed cotton tailored bag, e.g. glass, concrete, rubble and the drum ID provided back to Tradebe Inutec
- b) No drum shall weigh more than 200 kg
- c) No drum shall have a maximum surface dose rate of greater than 3 mSv hr⁻¹. The dose rate must be clearly recorded for each drum
- d) No drum shall contain more than 1% by volume of sorbed liquids
- e) Please provide detailed breakdown of activity and confirm here if Band A, B or C

Radionuclides	Radioactive content		
	Acceptable (A)	Likely to be acceptable (B) ⁴	Possibly acceptable (C) ⁵
Total alpha	0.05 GBq/drum	0.10 GBq/drum	≤4 GBq/tonne
Total beta/gamma	3.00 GBq/drum	5.00 GBq/drum	≤12 GBq/tonne

⁴ Likely to be acceptable but needs consideration and approval by Site Safety Manager.

⁵ Will need a review of specific hazards by Site Safety Manager, may be possible to accept with more information.

Part 2b – Drums Containing Asbestos

Q2b.1 What Quality Control procedures and processes are in place to ensure that the asbestos is double wrapped in PVC and sealed in a tailored cotton bag within each drum?

Q2b.2 What Quality Control procedures and processes are in place to ensure that no drum contains more than 5% by volume of sorbed liquids?

Q2b.3 What Quality Control procedures and processes are in place to ensure that the waste does not contain powders, such as ash, in quantities greater than 1 kg per drum?

Q2b.4 Please confirm on this checklist:

Initials

- a) Each drum shall be clearly identified as containing asbestos waste
- b) The waste shall be sealed within double-bagged PVC containment and packed into each drum fitted with a tailored cotton bag; the cotton bag must be sealed after loading the waste by pulling the draw string tight and tying the loose cord tightly around the neck of the bag or alternatively sealed using a cable tie
- c) No drum shall weigh more than 100 kg
- d) No drum shall have a maximum surface dose rate of greater than 100 $\mu\text{Sv hr}^{-1}$. The dose rate shall be clearly recorded for each drum
- e) No drum shall contain more than 5% by volume of sorbed liquids
- f) No drum shall contain powders such as ash in quantities greater than 1 kg (note that the asbestos will not be considered as a powder in this respect)
- f) Please provide detailed breakdown of activity and confirm here if Band A, B or C

Radionuclides	Radioactive content		
	Acceptable (A)	Likely to be acceptable (B) ⁴	Possibly acceptable (C) ⁵
Total alpha	0.05 GBq/drum	0.10 GBq/drum	≤ 4 GBq/tonne
Total beta/gamma	3.00 GBq/drum	5.00 GBq/drum	≤ 12 GBq/tonne

⁴ Likely to be acceptable but needs consideration and approval by Site Safety Manager.

⁵ Will need a review of specific hazards by Site Safety Manager, may be possible to accept with more information.

Part 2c - Drums containing > 1 kg incinerator ash / powders

Q2c.1 What Quality Control procedures and process is in place to ensure that the ash / powder, or waste which may generate dust upon supercompaction, is contained in a sealed, tailored cotton bag within each drum?

Q2c.2 What Quality Control procedures and process is in place to ensure that no drum contains more than 1% by volume of sorbed liquids?

Q2c.3 Please confirm on this checklist:

Initials

- a) Each drum must be clearly identified as containing incinerator ash / powdered waste
- b) The ash/powder must be contained in a sealed, tailored cotton bag within the drum; in addition any other material which may produce a dust as a result of the supercompaction process shall be packed in a sealed, tailored cotton bag, e.g. glass, concrete, rubble
- c) No drum shall weigh more than 200 kg
- d) No drum shall have a maximum surface dose rate of greater than 3 mSv hr⁻¹ The dose rate must be clearly recorded for each drum
- e) No drum shall contain free liquid/ more than 1% by volume of absorbed liquids

Radionuclides	Radioactive content		
	Acceptable (A)	Likely to be acceptable (B) ⁴	Possibly acceptable (C) ⁵
Total alpha	10 MBq/drum	20 MBq/drum	≤4 GBq/tonne
Total beta/gamma	600 MBq/drum	1000 MBq/drum	≤12 GBq/tonne

f) Please provide detailed breakdown of activity and confirm here if Band A, B or C

⁴ Likely to be acceptable but needs consideration and approval by Site Safety Manager.

⁵ Will need a review of specific hazards by Site Safety Manager, may be possible to accept with more information.

Part 2d - Drums containing HEPA filters

Q2d.1 What Quality Control procedures and process is in place to ensure that the HEPA filters, or waste which may generate dust upon supercompaction, is contained in a sealed, tailored cotton bag within each drum?

Q2d.2 What Quality Control procedures and process is in place to ensure that no drum contains more than 1% by volume of sorbed liquids?

Q2d.3 Please confirm on this checklist:

Initials

- a) No filter shall have a maximum surface dose rate of greater than 1 mSvhr⁻¹. This dose rate must be clearly recorded for each filter
- b) No drum shall contain hazardous wastes, as defined in the Hazardous Waste Regulations ...
- c) Please provide detailed breakdown of activity and confirm here if Band A, B or C

Radionuclides	Radioactive content		
	Acceptable (A)	Likely to be acceptable (B) ⁴	Possibly acceptable (C) ⁵
Total alpha	0.05 GBq/drum	0.10 GBq/drum	≤4 GBq/tonne
Total beta/gamma	3.00 GBq/drum	5.00 GBq/drum	≤12 GBq/tonne

- d) No filter shall be more than two years old from the time of generation, subject to negotiation .
- e) Each filter shall be marked with a unique identification number; there should only be one such number on each filter and the numbering system used should be similar for all filters from one supplier
- f) Each filter should be double-wrapped in PVC only
- g) Each filter, together with its wrapping, should have maximum dimensions not exceeding 645 mm high x 660 mm wide x 300 mm deep

⁴ Likely to be acceptable but needs consideration and approval by Site Safety Manager.

⁵ Will need a review of specific hazards by Site Safety Manager, may be possible to accept with more information.

Part 2e - Drums containing Beryllium

Q2e.1 What Quality Control procedures and processes are in place to ensure that drum contains no more than 1 weight % beryllium with respect to the total weight of the waste?

Q2e.2 What Quality Control procedures and processes are in place to ensure that no drum contains more than 5% by volume of sorbed liquids?

Q2e.3 What Quality Control procedures and processes are in place to ensure that the waste does not contain powders, such as ash, in quantities greater than 1 kg per drum?

Q2e.4 Please confirm on this checklist:

Initials

- a) Each drum shall be clearly identified as containing beryllium waste
- b) No drum shall weigh more than 200 kg
- c) No drum shall have a maximum surface dose rate of greater than 2 mSvhr⁻¹. The dose rate shall be clearly recorded for each drum
- d) No drum shall contain more than 5% by volume of sorbed liquids
- e) No drum shall contain powders such as ash in quantities greater than 1 kg
- f) No drum shall contain more than 1 weight % Beryllium with respect to total weight of the waste.....
- g) Please provide detailed breakdown of activity and confirm here if Band A, B or C

Radionuclides	Radioactive content		
	Acceptable (A)	Likely to be acceptable (B) ⁴	Possibly acceptable (C) ⁵
Total alpha	0.05 GBq/drum	0.10 GBq/drum	≤4 GBq/tonne
Total beta/gamma	3.00 GBq/drum	5.00 GBq/drum	≤12 GBq/tonne

⁴ Likely to be acceptable but needs consideration and approval by Site Safety Manager.

⁵ Will need a review of specific hazards by Site Safety Manager, may be possible to accept with more information.

PART 3 – Additional questions related to the consignment as a whole

Re-assertable drums / pre-treated drums

Re-assertable drums / pre-treated drums	Consignment total
Number of band 1 drums Total Drum Weight up to 100kg	
Number of Band 2 drums Total Drum Weight from 101 kg up to 140 kg	
Total re-assertable drums	
Pre-treated drums – number that contain shredded waste	
Pre-treated drums – number that contain pre-compacted waste	
Total shredded and pre-compacted waste drums	

Fissile radionuclides

Please provide details on the fissile material content of the waste so that the potential impact on criticality safety can be managed.

Fissile Material Limits

Fissile material content			
≤5 g	>5 g ≤15 g	>15g ≤ 180g U-235 + Pu-239 + U-233 (U-233 is calculated in U-235 equivalents where U-233 g x2 = U-235g) or	> 180g ≤ 300g U-235 + Pu-239 + U-233 (U-233 is calculated in U-235 equivalents where U-233 g x2 = U-235g) or
Likely to be acceptable at short notice	Likely to be acceptable subject to scheduling to keep within site limit	Likely to be acceptable but will be assessed and approved on a case by case basis depending on current site holdings	Potentially acceptable with written permission from Tradebe Inutec also subject to scheduling

Fissile nuclide	Consignment total
Mass of U-233 g (The U-233 mass should only be recorded where a waste is derived from a plant or process which handled separated U-233)	
Mass of U-235 g	
Mass of Pu-239 g	
Other fissile material g (please specify)	
Total Mass of above g	

Have any of the following uranium isotopes been specifically enriched? U-232, U-233, U-234, U-236, Other

Yes / No

If any uranium isotopes, natural or U-235 enriched have been declared as being present in this waste consignment, please complete one line for each enrichment band.

% Enrichment	Total weight of uranium (kg)	Weight of U-235 (kg)	Form of uranium (metal or oxide)

Physical /chemical composition of the waste

To comply with the Low-Level Waste Repository (LLWR) Waste Acceptance Criteria (WAC) we require an estimate of the physical / chemical composition of the contents of **each drum of waste** (within an accuracy of approximately 5% by mass). If all drums contain similar waste, a total estimate for the collection of drums is sufficient:

Drum ID:	Mass kg	Contents (Please provide a description of the waste in each category)					
Metal – Please define types of metal on the next page							
Concrete/rubble							
Soil							
Biodegradable- non putrescibles							
Biodegradable- putrescibles							
Plastics (halogenated)							
Plastics (non-halogenated)							
Rubber							
Wood							
Powders/ash							
Other organic							
Others							
	Form of material	% Weight	% Volume	Mass of hazardous material (kg)	Volume of hazardous material (m3)	Surface Area (m2)	Comments
Asbestos							
Lead							
Beryllium							

* Please include the mass of the container itself in the % mass as it will be supercompacted and form part of the wastestream. The type of metal as well as the quantity if each type must be defined, for example, copper, stainless steel, galvanised steel, iron etc.
For metals which react significantly on contact with water or cement grout, for example, zinc, aluminium, magnesium, please estimate their surface area

** Please specify the other materials, e.g. glass

Material		
Aluminium metal/alloy	mass (Kg)	
	form	
	surface area (m ²)	
Chromium metal/alloy	mass (Kg)	
	form	
Cobalt metal/alloy	mass (Kg)	
	form	
Copper metal/alloy	mass (Kg)	
	form	
Iron metal/alloy	mass (Kg)	
	form	
Magnesium metal/alloy	mass (Kg)	
	form	
	surface area (m ²)	
Mild Steel	mass (Kg)	
	form	
Molybdenum metal/alloy	mass (Kg)	
	form	
Nickel metal/alloy	mass (Kg)	
	form	
Stainless Steel	mass (Kg)	
	form	
Tin metal/alloy	mass (Kg)	
	form	
Titanium metal/alloy	mass (Kg)	
	form	
Vanadium metal/alloy	mass (Kg)	
	form	
Zinc metal/alloy	mass (Kg)	
	form	
	surface area (m ²)	
Cadmium metal/alloy	mass (g)	
	form	
Lead metal/alloy	mass (Kg)	
	form	
Mercury metal/alloy	mass (g)	
	form	



PART 4 – (Tradebe Inutec use only)

CHECKED BY **POSITION**

DATE

<p>COMMENTS</p>
