



## 1. Definition

Waste, in the sense of this data sheet, refers to all chemicals from industry, manufacturing and hazardous waste collection as per the below list. Mono-batches (batches > 1 t) are to be separately requested.

## 2. Delivery form

- The waste must be sorted, packaged and labelled in line with the applicable ADR regulations. The requirements of the applicable TRGS (technical rules for hazardous substances) are to be complied with.
- The individual (labelled) chemical bottles are to be packed in barrels with clamping ring lids of up to 120 l (coding 1A2 or 1H2 (packaging group I)) as per the applicable sorting criteria.
- Every drum is to be entered in list of a barrel contents. The list must name the chemical and give its weight.
- If a barrel is full or its contents are at the permitted limit, it must be topped up fully with inert (inorganic) materials.
- The calculated total weight of contents should also be entered on this list.
- The list is to be attached to the outside of the barrel using a document pouch. The group specified according to this packaging directive (= serial No.) with the group designation in addition to the EWC code is stated on the drum. Example: EAK 16 05 06/ No. 3/org. acids
- Please take care during packaging that glass bottles are unable to move, otherwise there is a danger that they will be destroyed during transit.
- All drums must be tightly sealed, externally clean, intact, approved and suitable for their contents.
- Every drum must be clearly, visibly and permanently labelled with the following information:
  - Producer
  - Type of waste/if needed, Approval number
  - Notification No.
  - EWC Code
  - Hazardous substance labelling as per GHS/CLP
  - Correct ADR labels
- Any extraneous lettering or inapplicable hazard labels are to be removed

- The following basic drum dimensions can be applied:

drums up to 30 l:

- Width and length: max. 38 cm min. 20 cm
- Height: max. 50 cm min. 20 cm
- Weight: max. 30 kg min. 10 kg (see sorting instructions)

drums 30 l – 120 l

- Diameter: max. 60 cm
- Height: min. 58 cm max. 100 cm
- Weight: see sorting instructions

- The drums are to be delivered on fully intact, stable, standard wooden pallets. Secure adequately to ensure hazard-free unloading and handling. Stacked height max. 1m (2 layers of 30 l drums). Each pallet may only hold drums of the same size and notification.
- Drums cannot be delivered in ASP containers.
- Each pallet may only hold drums of the same size and notification number.
- The delivery must be made using vehicles that allow hazard-free unloading by forklift (no delivery in roll-off containers or skips). At AVG, the deliverer must provide the pallets to the unloading area.
- For technical reasons, rolling hoop drums and barrels with side bungs cannot be accepted.
- The following waste must be delivered on separate pallets; in exceptional cases (e.g. for single containers) the materials can be placed on the pallet in such a way that they can be sorted out without difficulty:
  - ADR classes 4.2, 5.1 and 5.2 – oxidising and/or self-combustive materials
  - Waste with an ignition point below 135 °C and diethyl ether
  - Waste containing mercury
  - In addition, these drums need special labelling (e.g.: “Hg”)
  - Sulphurous waste (> 10 kg)
  - Waste with organosilicon (> 10 kg)

### 3. Criteria

#### Basic chemical qualities:

If not otherwise agreed in the offer/certificate of disposal, the following basic qualities apply for each drum (parameters not listed must be queried separately):

• Chlorine	50 kg		
• Sulphur:	20 kg		
• Mercury:	0.1 kg		
• Cadmium/thallium:	0.5 kg		
• Arsenic:	5 kg		
• Vanadium:	0.2 kg		
• Other heavy metals (total):	20 kg		
• Bromine:	5 kg		
• Fluorine:	5 kg		
• Iodine:	1 kg		
• Cyanide:	20 kg		
• Org. Silicium:	10 kg		
• Calorific value:	0 – 20	MJ/kg:	max. 100 kg/barrel
	20 – 30	MJ/kg:	max. 50 kg/barrel
	> 30	MJ/kg:	max. 30 kg/barrel

Sorting criteria for the acceptance of chemicals,organic

No.	Material group		Packaging
1	<b>Picric acid</b> Picric acid phlegmatised in min. 30 % water		Quantity limit per barrel: 5 kg (incl. water)
2	<b>Organic peroxides:</b> Organic peroxides, type C - F Peroxy acids such as peracetic acid etc. Tubes and tins with hardeners containing peroxide	The quantity must be less than the maximum listed in point 3.	Quantity limit per barrel: 10 kg Separate inquiries should be made about peroxides with a SADT < 50°
3	<b>Compounds containing bromine and iodine</b>		Quantity limit per barrel: Bromine: 5 kg; iodine: 1 kg
4	<b>Organic acids, such as:</b> Formic acid, acetic acid, propionic acid, butyric acid, benzoic acid, chloroacetic acid, oxalic acid, tartaric acid, etc. organic acidic cleaners		Quantity limit per barrel: 30 kg
5	<b>Organic acid anhydrides and halides:</b> Acid anhydrides such as acetic anhydride (ethanoic anhydride), butyric anhydride, maleic anhydride, phthalic anhydride etc. Acid halides such as acetyl chloride, butyryl chloride		Quantity limit per barrel: 30 kg

No.	Material group		Packaging
6	<p><b>Chemicals containing sulphur:</b></p> <p>Sulfamic acid</p> <p>Mercaptane and thio-organic compounds such as tetrahydrothiophene etc.</p> <p>Isothiocyanates (“mustard oils”)</p> <p>Carbon disulphide, dimethyl sulphoxide (DMSO)</p>		<p>Quantity limit per barrel: 30 kg</p> <p>Carbon disulphide: max.1 kg</p>
7	<p><b>Other flammable and/or toxic organic chemicals:</b></p> <p>Solid flammable toxic chemicals, such as camphor, naphthols, paraformadehyde, phenol, etc.</p> <p>Organic dyes</p> <p>Salts of organic acids, such as formates, acetates, stearates, oxalates, lactates, tartrates, citrates, etc.</p> <p>Liquid flammable and/or toxic chemicals, such as aniline, benzene, cresol, pyridine, toluidine, etc.</p> <p>Hardeners based on isocyanates and amines</p> <p>Solvents in which peroxides can be formed, such as THF, diethyl ether, dioxane, tetraline etc.</p> <p>Solvent-containing waste, e.g.: Car, furniture, leather care products, paint strippers with methylene chloride, corrosion protection paints with red lead or zinc chromates, chloroform</p> <p>Organic mercury compounds</p>	<p>The quantity must be less than the maximum listed in point 3.</p>	<p>Quantity limit per barrel: 30 kg</p> <p>Quantity limit per barrel: 100 g Hg</p>

No.	Material group		Packaging
8	<b>Organic silicon compounds</b> Silanes, chlorosilanes, silicon oils	The quantity must be less than the maximum listed in point 3.	Quantity limit per barrel: 10 kg
9	<b>Li/Mg/Al organic compounds in org. solvents</b> e.g. Butyl lithium in hexane e.g. Methyl magnesium chloride in THF e.g. Trimethyl aluminium in hexane		Quantity limit per barrel: 10 kg  Every individual substance must be placed in a small airtight, waterproof package within a plastic barrel
10	<b>Highly toxic substances that emit gases even at room temperature that are highly hazardous to health, and/or can be absorbed through the skin, are carcinogenic or mutagenic</b> e.g. dimethyl sulphate, epichlorohydrin		Quantity limit per barrel: 10 kg  These substances must be double-packed and registered separately  e.g. 10 l small drum in 30/60l plastic barrel.
11	Isocyanates e.g. MDI, TDI		Quantity limit per barrel:  50 kg for solid, cured isocyanates 30 kg for liquid isocyanates

### Special details:

The delivery of waste/materials containing the following materials/with the following properties requires our express approval (regardless of the above basic qualities and sorting criteria):

- Waste subject to other legal requirements (e.g. CWC, narcotics law, regulation on animal-by products)
- Pesticide (see separate leaflet)
- Note: At AVG we work with ABEK masks. Please get in touch if a different airway protection filter is needed for your waste.

### 4. Excluded substances

- Chemicals in gas/pressurised gas canisters
- Chemical and biological weapons
- Explosives listed in the Explosives Act and waste munitions
- Radioactive waste such as uranium and thorium compounds
- Hydrogen cyanide (prussic acid)
- Asbestos-containing materials
- Dry cells, lead batteries
- Fluorescent tubes
- Unknown substances (corresponds to ADR Waste Group 15 - exception 20)