

Instruction leaflet: chemicals, inorganic

Disposal facility: HTI Hamburg - Delivery conditions

The below is to communicate to you our delivery conditions for inorganic chemicals at

HTI Hamburg

in order to ensure delivery processes are simple and rapid

The delivery form is laid out in a binding manner in the offer or certificate of disposal/notification and is oriented by the properties, composition and quantity of waste, as well as the technical capabilities of the plant. It is thus imperative that it be complied with. The waste must correspond in its entirety to the information provided to us (safety data sheets, descriptions, photos, analyses, etc.). Deviations may be invoiced with costs. Further rights remain reserved

If deviations from the delivery form are unavoidable, please urgently get in touch with your sales contact before delivery. For all other questions on waste disposal, our sales contacts are also available to you.

Delivery is to be made to AVG Hamburg

Delivery dates are to be reported in advance to the scheduling department:

Phone: 0049 - 40 - 733 51-0 Email: Disposition@avg-hamburg.de
Fax: 0049 - 40 - 732 51 64

Delivery hours (incl. unloading time): Mo – Th from 7:00 a.m. to 5:00 p.m.
Fr from 7:00 a.m. to 2:00 p.m.

When an appointment is requested, AVG must be sent an overview list of the materials, substances and their respective weights. The delivery date can be arranged with the scheduling department at the earliest 7 days after receipt of the list.

The following waste requires special announcements:

- ADR classes 4.2, 5.1 and 5.2 - oxidising and/or spontaneously combustible materials (please note our form)
- Waste with an ignition point below 135 °C and diethyl ether
- Waste containing mercury

If our sales contacts have sent you an “approval number” for special waste, this must be given on registration or in the registration form and entered on the accompanying certificate in the box “free for notes” or with notifications on the M/T form.

In addition, our General terms and conditions (version of: 01.06.2022) and the leaflets in the version valid on the date of delivery apply (the documents can be found on our website www.indaver.de under “Service”). If necessary, you can always request documents to be sent.

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 07/ No. 7/ Hydrides
- 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 materials label
 - 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 drums) 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, inorganic

No.	Material group		Packaging
1	Phosphorus: Phosphorus, amorphous (red phosphorus) White/yellow phosphorus (stored under water!)	The quantity must be less than the maximum listed in point 3.	Quantity limit per barrel: 10 kg
2	Sulphides, hydrogen sulphides, dithionites and their aqueous solutions: Sodium sulphide, potassium sulphide, sodium hydrogen sulphide Sodium dithionite, potassium dithionite Calcium dithionite		Quantity limit per barrel: 20 kg
3	Ultra-fine powdered (pyrophoric) metals, flammable: Aluminium powder, magnesium powder Raney nickel Zinc dust Dry bronze		Quantity limit per barrel: 10 kg Aluminium powder, magnesium powder per barrel: max. 1 kg
4	Alkali and alkaline earth metals: Lithium (stored under petroleum ether or paraffin!) Sodium, potassium (stored under petroleum ether or paraffin!) Calcium, barium		Quantity limit per barrel: Li, Ca, Ba: max. 10 kg Na, K: max. 5 kg
5	Hydrazine: Hydrazine and its derivatives (e.g. methylhydrazine) Hydrazine hydrate Hydrazine, aqueous solution		Quantity limit per barrel: 30 kg Hydrazine anhydrous and hydrate per barrel: max. 5 kg

No.	Material group		Packaging
6	<p>Carbides and phosphides:</p> <p>Calcium carbide, aluminium carbide</p> <p>Calcium phosphide,</p> <p>Aluminium phosphide, zinc phosphide</p>		<p>Quantity limit per barrel: 10 kg</p> <p>Note:</p> <p>carbides and phosphides must be separately registered.</p>
7	<p>Hydrides, silicides, amides and azides</p> <p>Alkali and alkaline earth metal hydrides such as lithium hydride, lithium aluminium hydride, lithium boron hydride, sodium aluminium hydride, sodium boron hydride, potassium boron hydride, magnesium hydride, calcium hydride</p> <p>Alkali and alkaline earth metal silicides such as sodium silicide, potassium silicide, magnesium silicide, calcium silicide</p> <p>Alkali metal amides such as sodium amide, potassium amide</p> <p>Sodium azide</p>	<p>The quantity must be less than the maximum listed in point 3.</p>	<p>Quantity limit per barrel: 10 kg</p> <p>Every individual substance must be placed in a small, airtight, waterproof package within the plastic barrel.</p>
8	<p>Chlorites, hypochlorites, nitrates, nitrites, persulphates, permanganates and their (aqueous) solutions:</p> <p>Sodium chlorite, potassium chlorite, calcium chlorite</p> <p>Sodium hypochlorite, calcium hypochlorite, swimming pool chlorinators, chloride of lime</p> <p>Nitrates, nitrites</p> <p>Sodium persulphate/potassium persulphate</p> <p>Sodium permanganate, potassium permanganate,</p> <p>Calcium permanganate</p> <p>also: Small quantities of other oxidising substances not separately listed</p>		<p>Quantity limit per barrel: 30 kg</p> <p>Exception:</p> <p>Calcium permanganate:</p> <p>Quantity limit per barrel: 5 kg</p>

No.	Material group		Packaging
9	<p>Chlorates, perchlorates, bromates and their (aqueous) solutions</p> <p>Alkali and alkaline earth metal chlorates</p> <p>Sodium perchlorate, potassium perchlorate</p> <p>Calcium perchlorate, magnesium perchlorate</p> <p>Barium perchlorate</p> <p>Sodium bromate, potassium bromate, magnesium bromate</p>	The quantity must be less than the maximum listed in point 3.	<p>Quantity limit per barrel: 5 kg (solid)</p> <p>Quantity limit per barrel: 10 kg (solutions)</p> <p>Magnesium perchlorate: max. 0.5 kg</p> <p>Barium perchlorate max. 2 kg</p>
10	<p>Peroxides and superoxides, type C – F and their (aqueous) solutions</p> <p>Alkali and alkaline earth metal peroxides</p> <p>Alkali metal superoxides</p> <p>Hydrogen peroxide</p>		<p>Quantity limit per barrel: 5 kg</p> <p>Separate inquiries should be made about peroxides with a SADT < 50°C</p> <p>(H₂O₂ up to 70%): Quantity limit per barrel: 30 kg</p>
11	<p>Mercury salts and their (aqueous) solutions</p> <p>Mercuric bromide, chloride, iodide</p> <p>Mercuric cyanide, nitrate, oxide, sulphate, sulphide, thiocyanate</p> <p>Mercuric chromate</p> <p>Mercury-containing reagents such as</p> <p>Hayem's fluid (aqueous solution of mercuric chloride, sodium sulphate and chloride),</p> <p>Mayer's reagent (aqueous solution of mercuric chloride and potassium iodide),</p> <p>Millon's reagent (solution of mercuric nitrate in nitrous acid)</p> <p>Nessler's reagent (aqueous solution of mercuric iodide and potassium iodide with sodium hydroxide)</p>		<p>Quantity limit: 100 g Hg/barrel</p>

No.	Material group		Packaging
12	<p>Cyanides and thiocyanates and their (aqueous) solutions</p> <p>Sodium cyanide, potassium cyanide, calcium cyanide, barium cyanide, copper cyanide, lead cyanide, nickel cyanide complex cyanides such as potassium ferrocyanide, potassium ferricyanide, Prussian blue, sodium nitroprusside Thiocyanates (rhodanides)</p>	The quantity must be less than the maximum listed in point 3.	<p>Quantity limit per barrel: 20 kg (solid)</p> <p>Quantity limit per barrel: 30 kg (solutions)</p>
13	<p>Other inorganic chemicals and their (aqueous) solutions</p> <p>inorganic chemicals that cannot be assigned to any other sorting group, such as iron salts (except iron(III) chloride, anhydrous), manganese salts (except potassium permanganate), aluminium salts (except aluminium chloride, anhydrous), titanium salts (except titanium chlorides), boric acids</p> <p>Alkali and alkaline earth metal bromides, chlorides, fluorides, sulphates, sulphites, nitrates, phosphates, carbonates, hydroxides, borates, silicates other heavy metal salts (except mercury, arsenic, cadmium, vanadium and thallium salts)</p>		<p>Quantity limit per barrel: 30 kg</p> <p>Exceptions: Heavy metal salts max. 20 kg</p>
14	<p>Vanadium, vanadium compounds and their solutions</p> <p>Vanadium, vanadium oxide, vanadium salts</p>		<p>0.2 kg</p>
15	<p>Arsenic, cadmium and thallium compounds and their (aqueous) solutions</p> <p>Arsenic, arsenic oxides, arsenic salts Cadmium, cadmium oxide, cadmium salts Thallium, thallium oxides, thallium salts</p>		<p>Quantity limit per barrel: 5 kg</p> <p>Cadmium, thallium: per barrel max. 0.5 kg</p>

No.	Material group	Packaging
16	Ammonia salts and their aqueous solutions: Ammonia compounds excluding ammonium azide, bromate, chlorate, dichromate, nitrate, nitrite, perchlorate, perchromate, persulphate	Quantity limit per barrel: 30 kg
17	Bromine, iodine and its solutions (also in (aqueous) solution) Iodine, iodides, iodates Bromine, bromine water	Quantity limit per barrel: 1 kg (iodine) Quantity limit per barrel: 5 kg (bromine)
18	Chromium trioxide Chromium trioxide, anhydrous (chromic acid, solid) (aqueous) solution of chromium trioxide	Quantity limit per barrel: 10 kg (solid) Quantity limit per barrel: 20 kg (solution)
19	Inorganic acids and anhydrides Perchloric acid in aqu. solution (max. 71 %) Nitric acid, including red-fuming, nitric acid mixtures Sulphur trioxide Chromosulphuric acid Hydrofluoric acid, hydrofluoric acid-containing stainless steel pickling paste Phosphorus pentoxide Other inorganic acids, acid cleaners, etching agents	Quantity limit per barrel: 5 kg (perchloric acid) Quantity limit per barrel: 30 kg
20	Inorganic alkalis Caustic soda, caustic potash, alkaline cleaners, alkaline paint strippers, sodium silicate (waterglass)	Quantity limit per barrel: 30 kg
21	Elemental sulphur	Quantity limit per barrel: 20 kg

The quantity must be less than the maximum listed in point 3.

22	Halides: Chlorosulphuric acid, sulphur chlorides Phosphorus(III) chloride, Phosphorus(III) bromide Thionyl chloride Antimony(V) chloride, tin(IV) chloride, titanium(IV) chloride Aluminium chloride, aluminium bromide Antimony(III) chloride, titanium(III) chloride, iron(III) chloride Phosphorus(V) chloride, phosphorus(V) bromide Zinc chloride Molybdenum(V) chloride, copper chloride	The quantity must be less than the maximum listed in point 3.	Quantity limit per barrel: 20 kg
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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)