

## Instruction leaflet – Direct injection (warm) – bulk

### Disposal facility: HTI Hamburg - Delivery conditions

The below is to communicate to you our delivery conditions for the acceptance of waste at

HTI Hamburg (direct injection)

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. The individual material streams must each be delivered with their own disposal certificates and/or notifications.

Cleaning/rinsing of vehicles at the direct injection is not possible.

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](mailto:Disposition@avg-hamburg.de)

Fax: 0049 - 40 - 732 51 64

Delivery times:

Mo – Th from 7:00 a.m. to 4:00 p.m.

Fr from 7:00 a.m. to 1:00 p.m.

On registration, the approval number and container number must be given. These data must be entered 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.

During registration, information must be provided on the connections/couplings of the tanker used in the form of a technical drawing or photos. The product line and the N<sub>2</sub> line must be unambiguously identifiable.

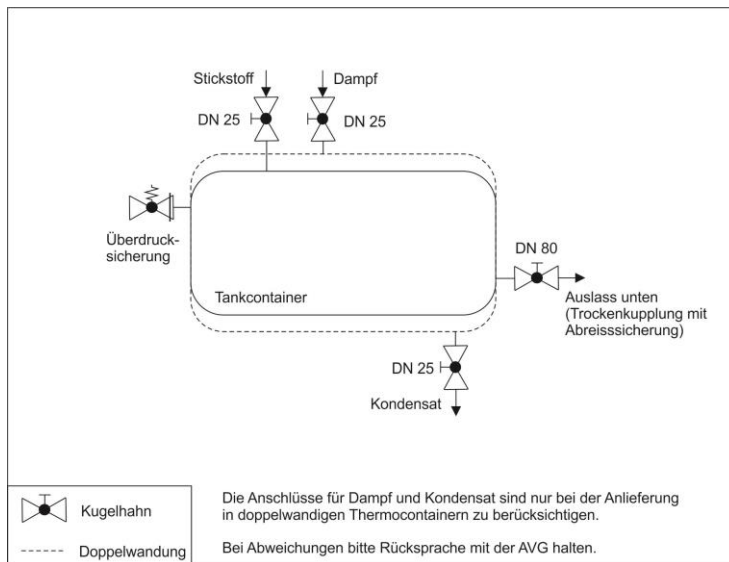
In addition, our General terms and conditions (version of: 01.06.2022) and the leaflets in the version valid on the date of delivery apply (the documents can be found on our website [www.indaver.de](http://www.indaver.de) under “Service”). If necessary, you can always request documents to be sent.

## 1. Definition

Waste for direct injection within the meaning of this information leaflet is heated waste from industry, commerce, collection and hazardous substance collection.

## 2. Delivery form

- Delivery takes place in tankers/transport containers. The tank containers must not be contaminated with waste from the outside.
- Tankers/transport containers will remain on our premises during unloading/treatment and must have a means of connection for nitrogen, an earthing point and a working overpressure protection. The required connections can be seen in the figure.
- In addition, the delivery vehicle must have a connection for steam and condensate. It must be ensured that the steam and condensate circuit is not contaminated.
- Item 5 contains more information on the connection conditions.
- We assume that valid inspection certificates are available for each tanker and can be presented on request.
- Delivery in electrically heated containers is not possible.



### 3. Criteria for waste for direct injection

- Viscosity: max. 200 mPas at delivery temperature
- Delivery temperature: 100 – 150 °C
- Decomposition temperature: min. 100 °C above delivery temperature
- Sediment content: max. 0.1 Wt.%
- Particle size: max. 3 mm
- Density: < 1.2 g/cm<sup>3</sup>

The composition of the waste must correspond to the details of the questionnaire.

#### Basic chemical qualities

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

- Chlorine: < 2 Wt.%
- Bromine: < 0.2 Wt.%
- Iodine: < 0.01 Wt.%
- Fluorine: < 0.1 Wt.%
- Sulphur: < 1 Wt.%
- Phosphorus: < 1 Wt.%
- Mercury: < 50 mg/kg
- Arsenic, cadmium, thallium (total) < 100 mg/kg
- Heavy metals (total) < 0.5 Wt.%
- (Ni, Cu, Te, Se, Sb, Be, Pb, Cr, Sn, V)
- Zinc: < 1 Wt.%
- Molybdenum: < 500 mg/kg
- Sodium/potassium/lithium/magnesium (total) < 5 Wt.%
- Org. Silicium: < 0.3 Wt.%
- Evaporation residues < 10 Wt.%
- PCB and PCT (as per DIN) < 10 mg/kg

## Special details

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

- Waste subject to the POP Regulation
- Waste subject to other legal requirements (e.g. CWC, narcotics law, regulation on animal-by products)
- PCB-containing waste (> 10 mg/kg as per DIN)
- Note: At AVG we work with ABEK masks. Please get in touch if a different airway protection filter is needed for your waste.
- Substances with an ignition temperature < 200 °C (temperature class T4)

## 4. Excluded substances

- Radioactive waste and waste that has radiation level higher than the background radiation
- Explosives and substances at risk of explosion
- Substances with an ignition temperature < 135 °C (temperature class T5, T6)
- Self-igniting substances

## **PLEASE COMPLY WITH THE FOLLOWING DECLARATION OF CONSENT!!!**

To safeguard procedures within the operation, we have to move tankers with our own vehicles after emptying. By making delivery, the waste producer gives their **consent** to this.

## 5. Conditions for tanker connection to direct injection, HTI Hamburg

The below means of connection are available at the Hamburg facility:

	Floor drainage	Standpipe removal	N <sub>2</sub> connection	Steam connection*
Tanker coupling	DN 100	N/A	DN 50	-----
	DN 80		DN 25	
	DN 50			
Threaded coupling	DN 100	N/A	-----	-----
	DN 80			
Flange coupling	DN 80	N/A	DN 50	DN 50
	DN 50		DN 25	DN 25
	DN 25		DN 20	DN 20
	DN 20			

All connections must be clearly labelled, seals must be intact.  
Further sizes after consultation only with min. 14 day notice

The permitted operating pressure of the tank container must be min. 3 bar (nameplate).  
The heating system must be approved for pressures up to 10 bar.