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FRENCO

VRL 21

Environmental management

A Environmental policy

Frenco GmbH has committed itself to avoid any environmental impacts, or to keep them as low as possible. If environmental impacts do occur, any existing legal provisions are complied with and the impacts, where possible, are minimised in future. Measures to reduce environmental impacts are taken wherever possible.

B Environmental management system

Mr Thomas Peter, our Managing Director, is responsible for our environmental management system. Any environmentally relevant tasks are discussed with the relevant employees, solutions are developed and documented. This directive VRL 21 is made available to all members of the workforce and the public.

C Measures to protect the environment

C1 Emissions

C1.1 Heating

The heating system works with natural gas. A state-of-the-art boiler and a modern burner are installed. The heating system is maintained at regular intervals and the exhaust fumes are set to the lowest possible level.

The proper function of the heating system is permanently monitored through a software programme. Any errors are automatically passed on to the persons responsible. Important parameters are permanently recorded.

The entire office building and the calibration laboratory are additionally insulated to minimise the heat requirement. The thermal insulation goes beyond the latest minimum standards.

C1.2 Cooling

A highly efficient turbine unit ("Turbocor") is used to create cooling during the summer months. During the winter months, the required low temperature is gained via a heat exchanger fed exclusively from the outside air.

Air conditioning is achieved via a heat exchanger. The air conditioning unit is regularly maintained and checked for coolant leaks. Leakages are monitored via a gas warning system. The proper function of the climate system is permanently monitored via a software programme. Any errors are automatically passed on to the persons responsible. Important parameters are permanently recorded.

The window panes in air-conditioned rooms are lined with a special foil to reduce radiation heat.

The heat exchanger of the cooling unit is significantly below the legal noise limit.

C1.3 Noise

Great value is placed on low noise emissions. The grinding shop is equipped with sound-absorbing material. The gates are usually kept shut to avoid any noise transmission to the outside.

C1.4 Dust

Dust is mainly created when gear profiles are dry ground or brushed. All machines are equipped with filter systems for grinding dust. The grinding dust is filtered from the air and disposed.

C2 Discharges into water

Only unpolluted liquids are discharge into the sewer system. Any other liquids, including those with unknown pollution levels, are disposed of as hazardous waste. They are collected in the oil chamber and taken to a certified hazardous waste treatment plant.

C3 Waste disposal

Various waste containers are available to be used. Waste paper is collected in paper containers and taken for recycling. Any non-toxic waste is disposed of in mixed waste containers. The waste we are unsure about is collected and disposed of periodically in an especially requested container. Batteries and rechargeable batteries are collected separately and professionally disposed of via the hazardous waste.

C4 Material waste

EDM wires are handed over to a recycling company. Scrap iron and non-ferrous metals are stored in a locked external room and collected by a certified scrap disposal company to be recycled. Electronic waste is also stored in a locked external room and collected by a certified specialist company to be recycled.

C5 Hazardous substances

The following hazardous substances are used by the company. Data sheets for all hazardous substances (in which their handling is described) are available.

No.	Manufacturer/Agent	Usage	Form	Place of use	
1	Hebro Uni-Lub	corrosion prevention	aerosol	small device assembly	✓
2	Hebro Cut 2000	lubricant	aerosol	small device assembly	✓
3	HebroResost 85-128	corrosion prevention	aerosol	small device assembly	✓
4	Titzmann LUB Cleaner	cleaning	canister	small device assembly	✓
5	Loctite Super Lub	Teflon oil	aerosol	machine assembly	✓
6	Loclite 243	screw-locking adhesiv	tube	machine assembly	✓
7	Loclite Flüssigmetall	metal deposition	double tube	machine assembly	✓
8	Hebro mMulti-Plus	rust remover + lubrication	aerosol	grinding	✓
9	Hebro GrylSol	coolant bucket rust inhibitor	tin barrel	grinding	✓
10	Technolit Industrie-Spezial-Reiniger	solvent	canister	grinding	✓
11	Heun Virasol	EDM recast layer solvent	canister	EDM	✓
12	E-Coll Spiritus Virasol	clean contacts	bottle	EDM	✓
13	Esso Febis K220	lubricant for slideways	canister	EDM	✓
14	Schuler MOS 20 EL	rust inhibitor	aerosol	grinding	✓
15	Joh. Hoffmann Diaclean	granite cleaner	bottle	grinding, measuring, assembly	✓
16	Och WO 40	grinding lubricant	canister	grinding	✓
17	WD 40	rust remover	aerosol	machine assembly	✓
18	Shell Retinax A	machine grease	tin bucket	grinding	✓
19	Mobil Vakouline 1405	hydraulic oil	tin barrel	grinding	✓
20	Mobil DTE 26	machine oil	tin canister	grinding	✓
21	Stasek HD 40	compressor oil	plastic canister	grinding	✓
22	Bender V2000	oil separator	aerosol	machine assembly	✓
23	van Laas GmbH Molyduval Fluid 15	synthetic oil	tin	machine assembly	✓
24	Klüber Quitsch EX	screw remover	aerosol	machine assembly	✓
25	Schick + Co Antifrogen	heat carrier, air con	plastic canister	air con	✓
26	Fischar Reinigungsbenzin	cleaning solvent	tin	inspection room	✓
27	Titzmann Optimal 2000	cold degreaser	plastic canister	small device assembly	✓
28	Chemoplast NV Hart-Glanz 1Z Wachs		tin	machine assembly	
29	Dinusol Zubra 30H Plus	lubricant	barrel		✓
30	Schlitt NU-BIAK	burnishing cream	pl. container	small device assembly	✓
31	Stuart Excelence 416	coolant oil		supply system Kapp NC grinding machine	
32	Shell Tellus 46	hydraulic oil	canister	hydraulic system Kapp	
33	Shell Morlina 22	lubricant	canister	maintenance compressed-air system Kapp	
34	Shell Tonna S68	lubricant	canister	central lubrication system Kapp	
35	Holts Professional	brake cleaner	aerosol	parts cleaning Kapp	

✓ Datasheet

C6 Cooling lubricants and oil

Containers, which are disposed of by specialist companies, are available for cooling lubricants and oils. For questions in this matter, please contact Mr Thomas Peter.

C7 Packaging

If the customer provides packing material, it will be reused. A system is in place to assign the packaging to the relevant return delivery. In general, packaging material is collected and reused. Gauges are placed in reusable packaging, which our customers can use for storage and for transport. Larger devices are wrapped by a certified service provider.

C8 Prevention of pollution

Faulty printed circuit boards are, where possible, refurbished and sold to our customers at a discount. Damaged gauges are repaired as long as it is economically viable.

Large devices are, on behalf of customers, reworked in our retrofit department and returned to the customer as new.

Batteries are, where possible, replaced by rechargeable batteries.

All flat roofs are planted to retain surface water, to improve the building insulation and the air quality.

D Improvement and Extension

Any measures to improve the environment protection are carried out as long as it is not deemed economically or logically pointless. When new technologies or methods are introduced, the environmental aspect is given special consideration and is included in the concept.