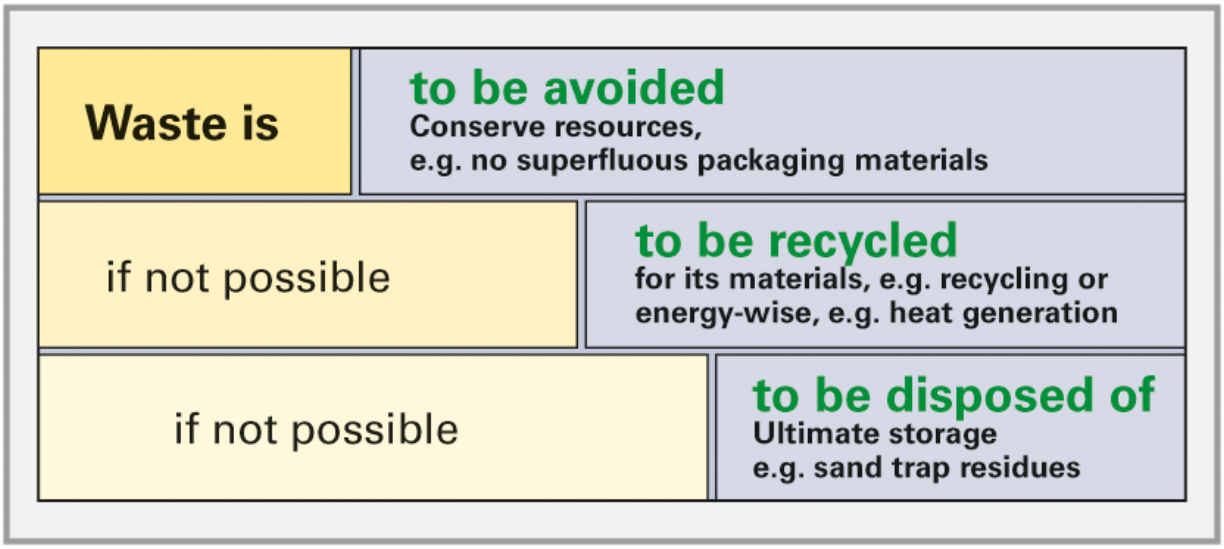
Glærur umhverfi mengun og förgun efna

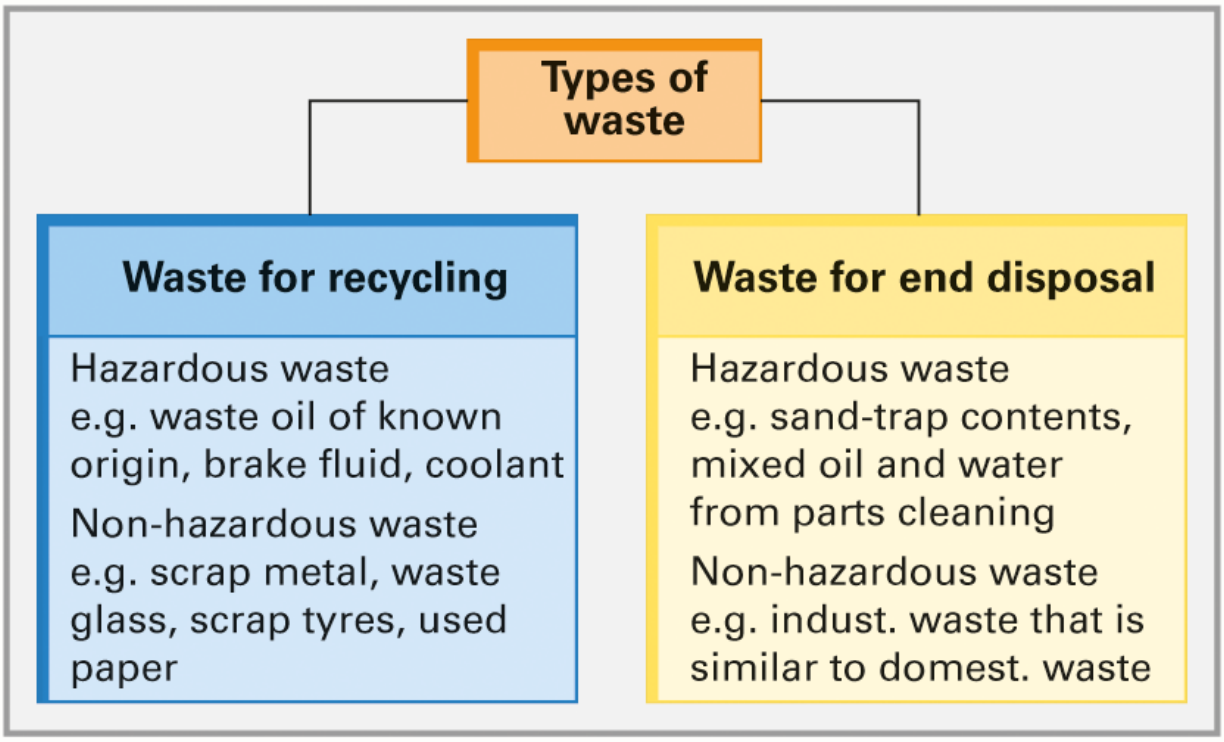
Table 1: Environmental law*

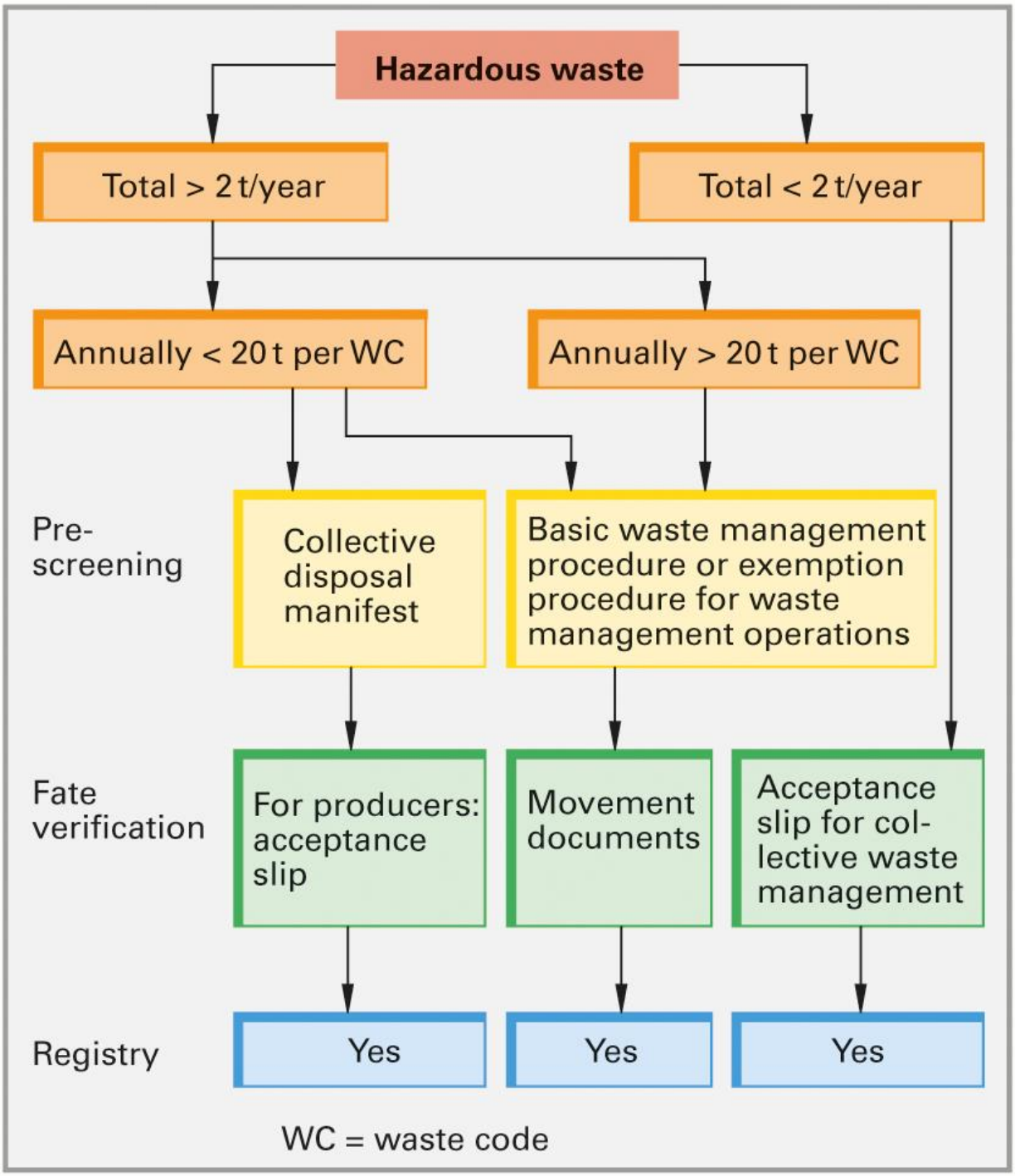
Law on waste disposal	Water rights	Chemical use legislation	Highway and traffic regulations	Labour protection legislation
Closed Substance Cycle Waste Management Act	Water Resources Act	Chemicals Act	Hazardous Cargo Act	Equipment Safety Act
Ordinance on Waste Oils Ordinance on End-of-life Vehicles Waste Catalogue Ordinance Ordinance on Waste Recovery and Disposal Records	Ordinance on Storage of Liquids Hazardous to Waters Ordinance on Equipment for Handling Materials Hazardous to Waters	Ordinance on Hazardous Materials and Substances	Ordinance on Hazardous Cargo Transportation	Ordinance on Flammable Liquids
Technical Instructions on Waste		Technical Guidelines on Hazardous Materials and Substances	Technical Directives	Technical Guidelines on Flammable Liquids

* The laws and ordinances mentioned in Chapter 2 relate to German and/or EU law.

Table 1: Hazardous and non-hazardous waste (excerpt from the Waste Catalogue Ordinance)	
EWC code	Type of waste
130204 *	Mineral-based chlorinated engine, gear and lubricating oils
130502 *	Sludges from oil/water separators
140603 *	Other solvents and solvent mixtures
160103	End-of-life tyres
160113 *	Brake fluids
160119	Plastic
160601 *	Lead batteries
160107 *	Oil filters


Waste is
to be avoided
Conserve resources,
e.g. no superfluous packaging materials
if not possible
to be recycled
for its materials, e.g. recycling or
energy-wise, e.g. heat generation
if not possible
to be disposed of
Ultimate storage
e.g. sand trap residues


Types of waste
Waste for recycling
Hazardous waste
e.g. waste oil of known origin, brake fluid, coolant
Non-hazardous waste
e.g. scrap metal, waste glass, scrap tyres, used paper
Waste for end disposal
Hazardous waste
e.g. sand-trap contents, mixed oil and water from parts cleaning
Non-hazardous waste
e.g. indust. waste that is similar to domest. waste



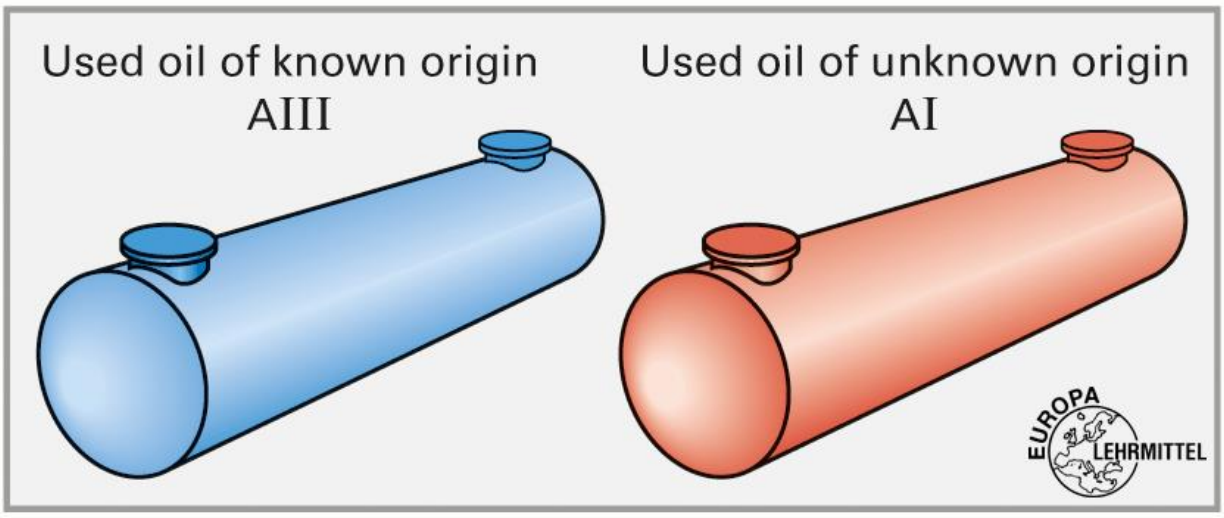


Table 1: Water hazard classes
Substances posing a severe hazard to water (hazard class 3), e.g. waste oil, lubricating oils, solvents, fuels for spark-ignition engines
Substances posing a hazard to water (class 2), e.g. brake fluid, diesel fuels, heating oil
Substances posing a limited hazard to water (class 1), e.g. as battery electrolyte, coolant, petroleum

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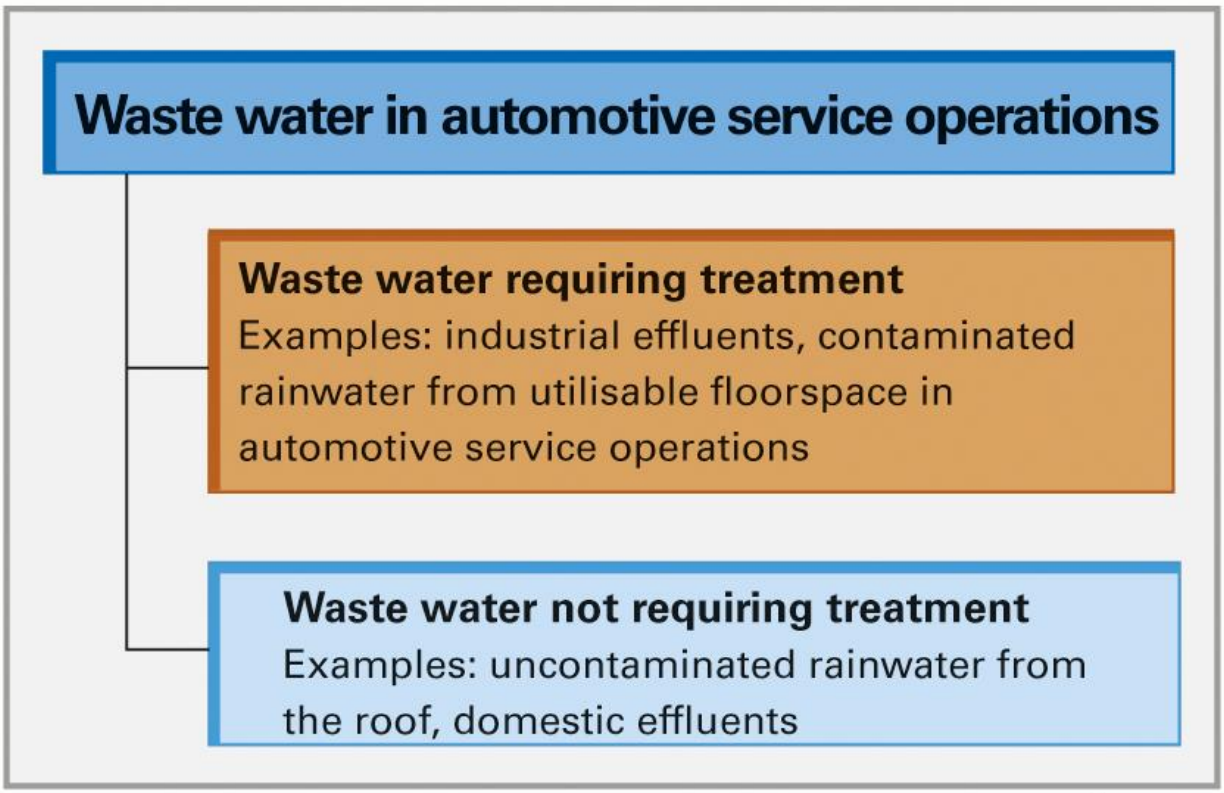

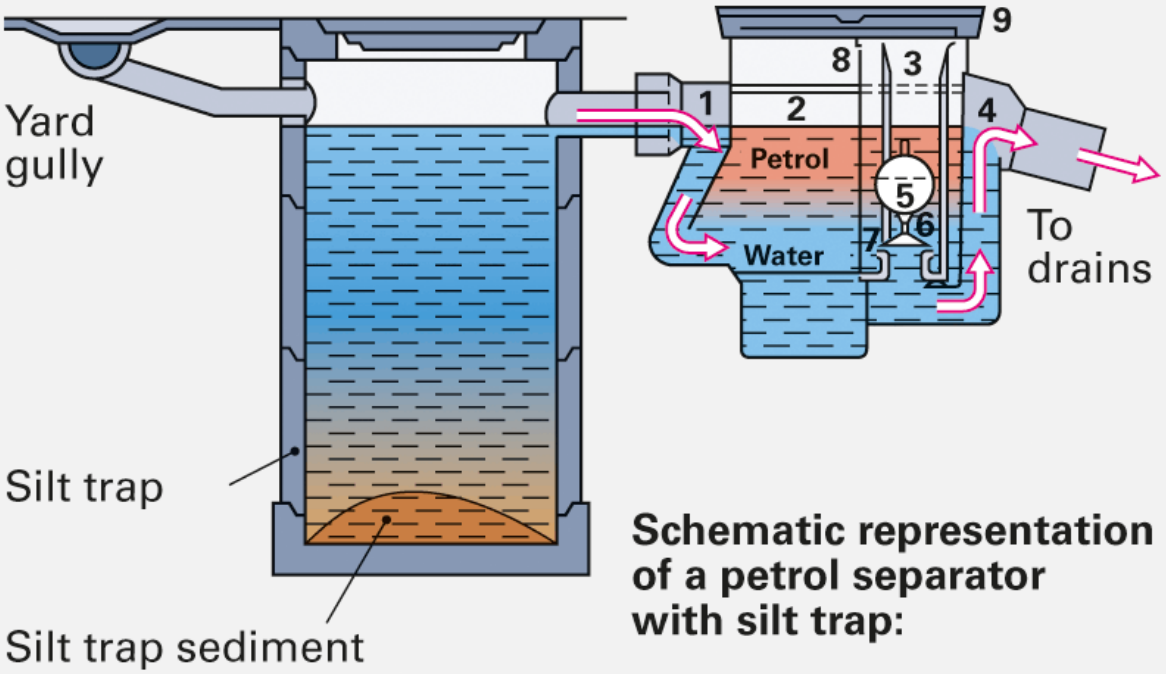

Schematic representation of a petrol separator with silt trap:

1 Inlet, 2 Separation chamber, 3 Float chamber,
4 Outlet, 5 Float, 6 Valve disc, 7 Valve seat,
8 Float chamber cover, 9 Cover

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Table 1: Properties of hazardous substances and preparations as defined in the Chemicals Act

• Explosive	• Irritant
• Oxidising	• Prolonged exposure may increase sensitivity
• Highly flammable	• Carcinogenic
• Easily flammable	• Source of embryonic damage
• Flammable	• Source of genetic damage
• Extremely toxic	• Source of chronic illness
• Toxic	• Environmental hazard
• Mildly toxic	
• Caustic	

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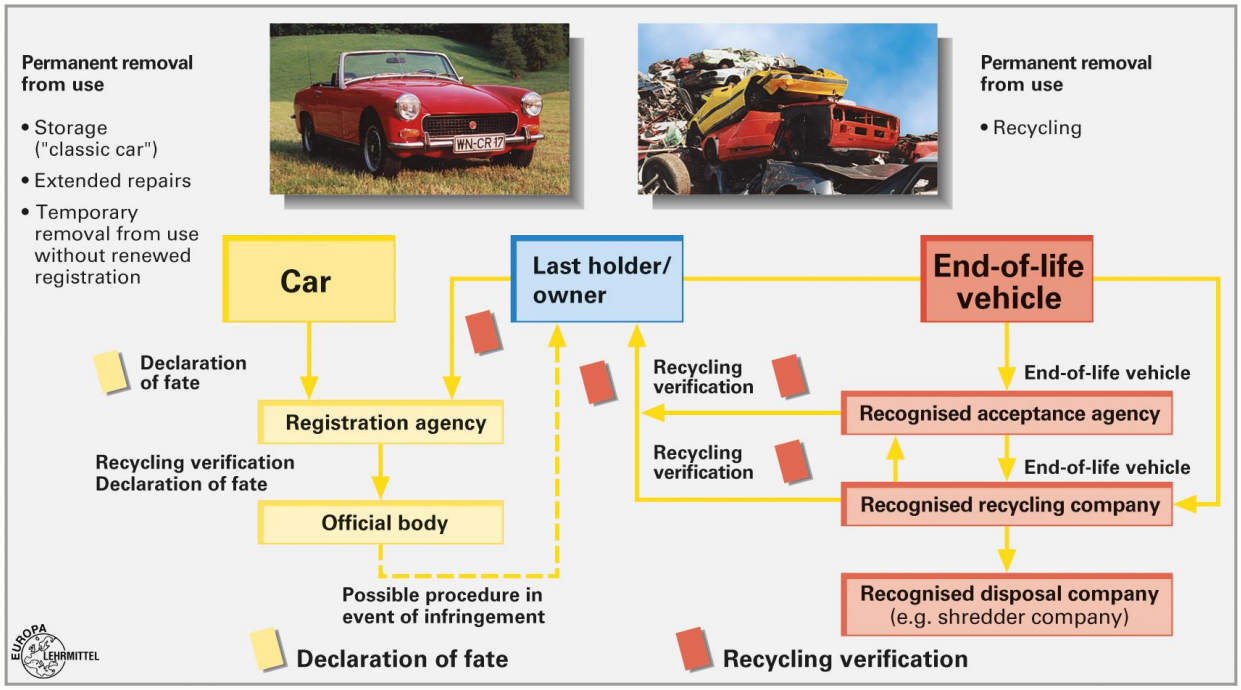

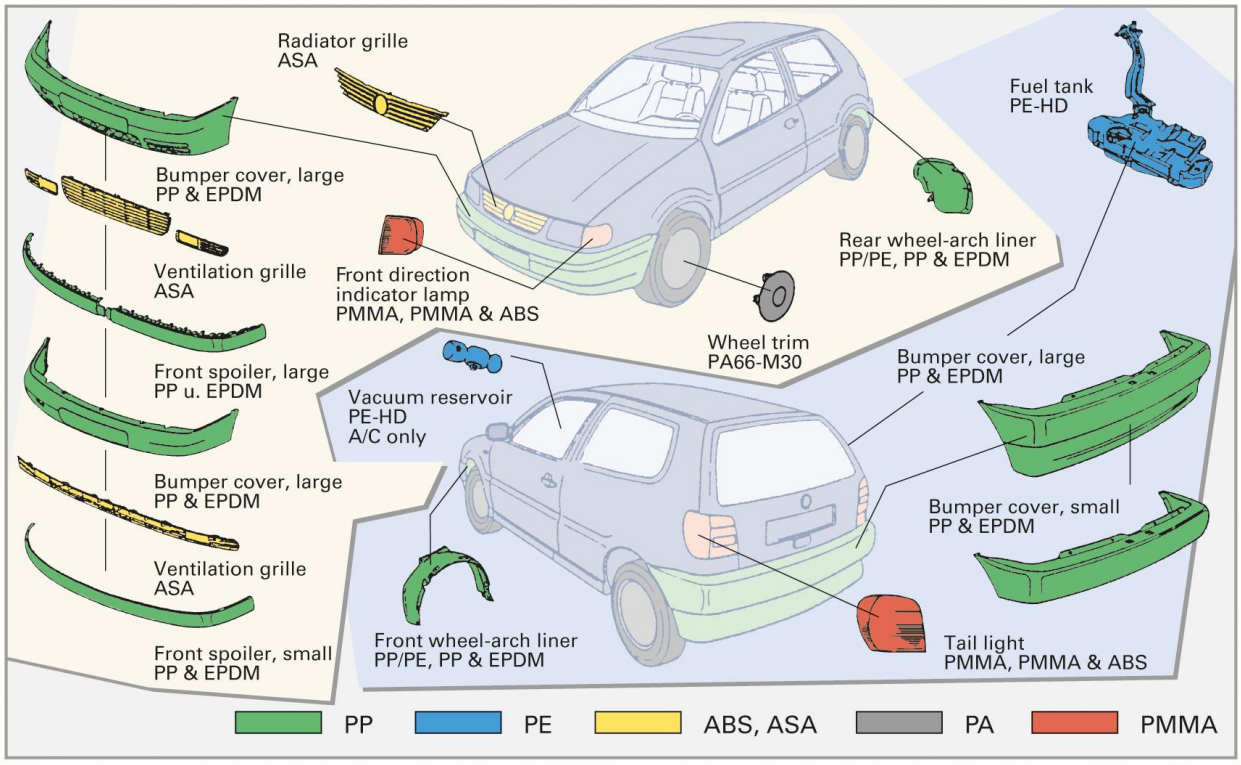
Radiator grille
ASA
Bumper cover, large
PP & EPDM
Ventilation grille
ASA
Front spoiler, large
PP u. EPDM
Bumper cover, large
PP & EPDM
Ventilation grille
ASA
Front spoiler, small
PP & EPDM
Front direction
indicator lamp
PMMA, PMMA & ABS
Rear wheel-arch liner
PP/PE, PP & EPDM
Fuel tank
PE-HD
Wheel trim
PA66-M30
Vacuum reservoir
PE-HD
A/C only
Bumper cover, large
PP & EPDM
Bumper cover, small
PP & EPDM
Front wheel-arch liner
PP/PE, PP & EPDM
Tail light
PMMA, PMMA & ABS
PP
PE
ABS, ASA
PA
PMMA

Table 1: The end-of-life vehicle as source of raw materials in percent by weight	
Iron and steel	70%
Rubber	9%
Plastics and synthetic materials	8%
Glass	3%
Aluminium	3%
Copper, zinc, lead	2%
Other non-ferrous metals	1%
Other	4%

Öryggismerkingar og fleira

Autohaus Europa
Munich

Fire Safety Regulations

as per DIN 14 096 - A

Help prevent fires

Comply with signs in designated areas that prohibit smoking and open flames.

In case of fire

Keep calm

Report the fire

Use push-button to activate fire alarm.

Alarm is forwarded automatically to the fire department.

Dial ☎ 0112 to notify the fire department.

Report the following:

- Who is calling?
- What is happening?
- Where is the fire?
- How many people are affected/injured?
- Wait for further questions.

Go to safety

- Warn endangered persons
- Help those in need of assistance
- Close doors
- Follow emergency evacuation signs
- Do not use elevators
- Follow instructions of fire safety officers/fire department
- Go to meeting place: _____

Attempt to extinguish fire

- Use fire extinguishers; ensure personal safety
- Use several portable fire extinguishers at once when possible

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1.		1.1	1.2	1.3	1.4	1.5	1.6
Mechanical hazards		Exposed moving machine parts	Parts with dangerous surfaces	Moving means of conveyance, moving work equipment	Uncontrolled moving parts	Falls (level ground), slips, tripping, twisting an ankle, taking a misstep	Falls
2.		2.1	2.2				
Electrical hazards		Hazardous electric shock currents	Electric arcs				
3.		3.1	3.2	3.3	3.4	3.5	3.6
Toxic substances		Gases	Vapours	Aerosols	Liquids	Solids	Runaway reactions
5.		5.1	5.2	5.3	5.4		
Fire and explosion hazards		Risk of fire due to solids, liquids and gases	Explosive atmospheres	Explosive material	Electrostatic charges		
7.		7.1	7.2	7.3	7.4	7.7	
Hazards arising from specific physical agents		Noise	Ultrasound, subsonic noise	Whole-body vibration	Hand-arm vibration	Electromagnetic fields	
8.		8.1	8.2	8.3			
Hazards arising from workplace conditions		Climate/air conditioning	Lighting	Required space/ transport routes			
9.		9.1	9.2	9.3	9.4		
Physical load/ work intensity		Heavy dynamic work	Unilaterally dynamic work	Static or dynamic work postures	Combination of static/dynamic tasks		

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Work area: Auto shop
Occupational category: Automotive electromechanical engineer
Task: Battery service

Autohaus Europa

Person in charge: _____

Information	Identified hazards and their descriptions	Risk H	Risk M	Risk L	Measures	Issuer/ Advisor	Date Finished	Applicable Yes	Applicable No
BGI 808	☐ Risk of explosion due to the formation of potentially explosive mixtures (explosive gases)	☐	☐	☐	☐ Charging rooms sufficiently ventilated (vertical transferse system) ☐ Charge voltage limited as per manufacturer specifications to prevent overcharging batteries ☐ Smoking prohibited ☐			☐ ☐ ☐ ☐	☐ ☐ ☐ ☐
BGR 157	☐ Risk of electric arc discharge	☐	☐	☐	☐ Use of safe/reliable chargers with on/off switches ☐ Jump-start cable connected/disconnected in correct order ☐ Use of insulated tools only ☐			☐ ☐ ☐ ☐	☐ ☐ ☐ ☐
BGR 192 BG-7.3.31	☐ Risk of chemical burns caused by electrolyte	☐	☐	☐	☐ Use of battery syringe, carboy tip cart made of break-proof material ☐ Use of suitable personal protection equipment (face and eye protection, acid-resistant gloves and aprons) ☐ First-aid kit and equipment available ☐			☐ ☐ ☐ ☐	☐ ☐ ☐ ☐
	☐ Risk to human health and the environment due to leakage of battery electrolyte	☐	☐	☐	☐ Use of hazardous materials box for old batteries ☐ Storage of battery electrolyte in tiled areas, rooms with floor liners, or tanks ☐			☐ ☐ ☐	☐ ☐ ☐
	☐	☐	☐	☐	☐			☐	☐

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Toxic substances

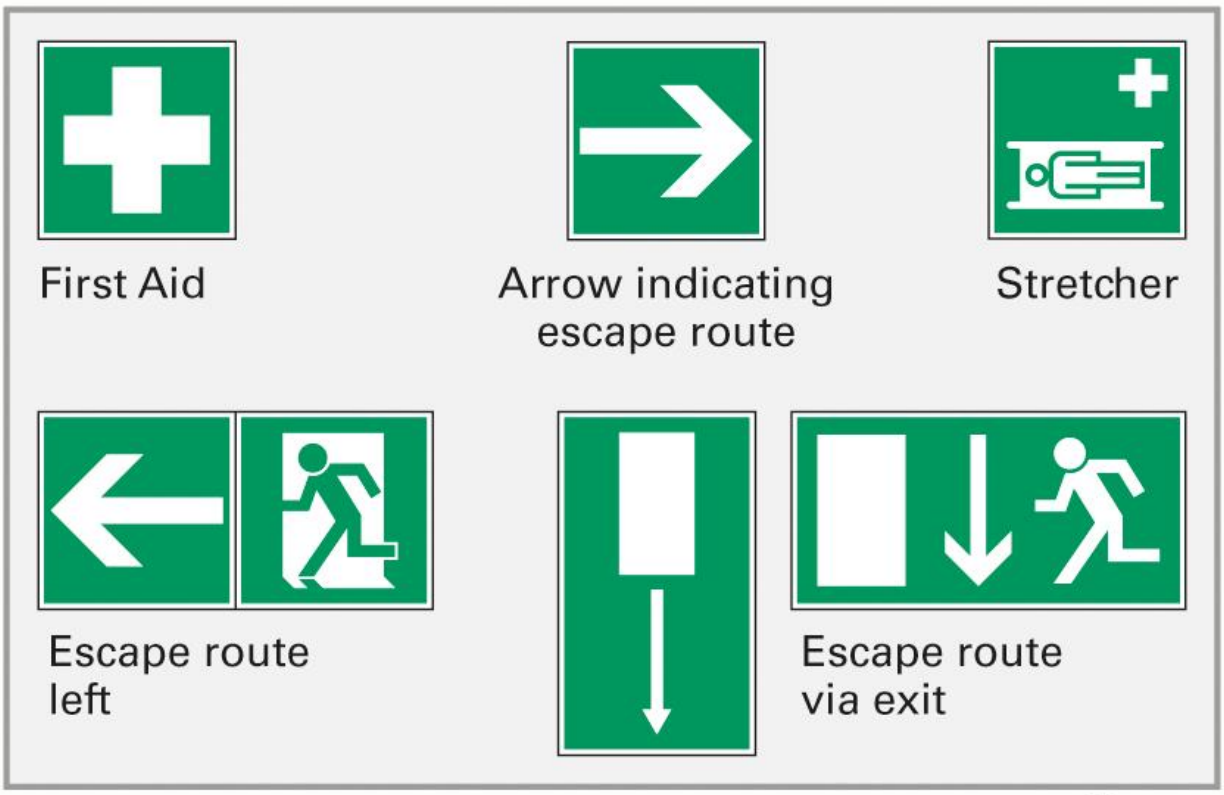
Explosive substances

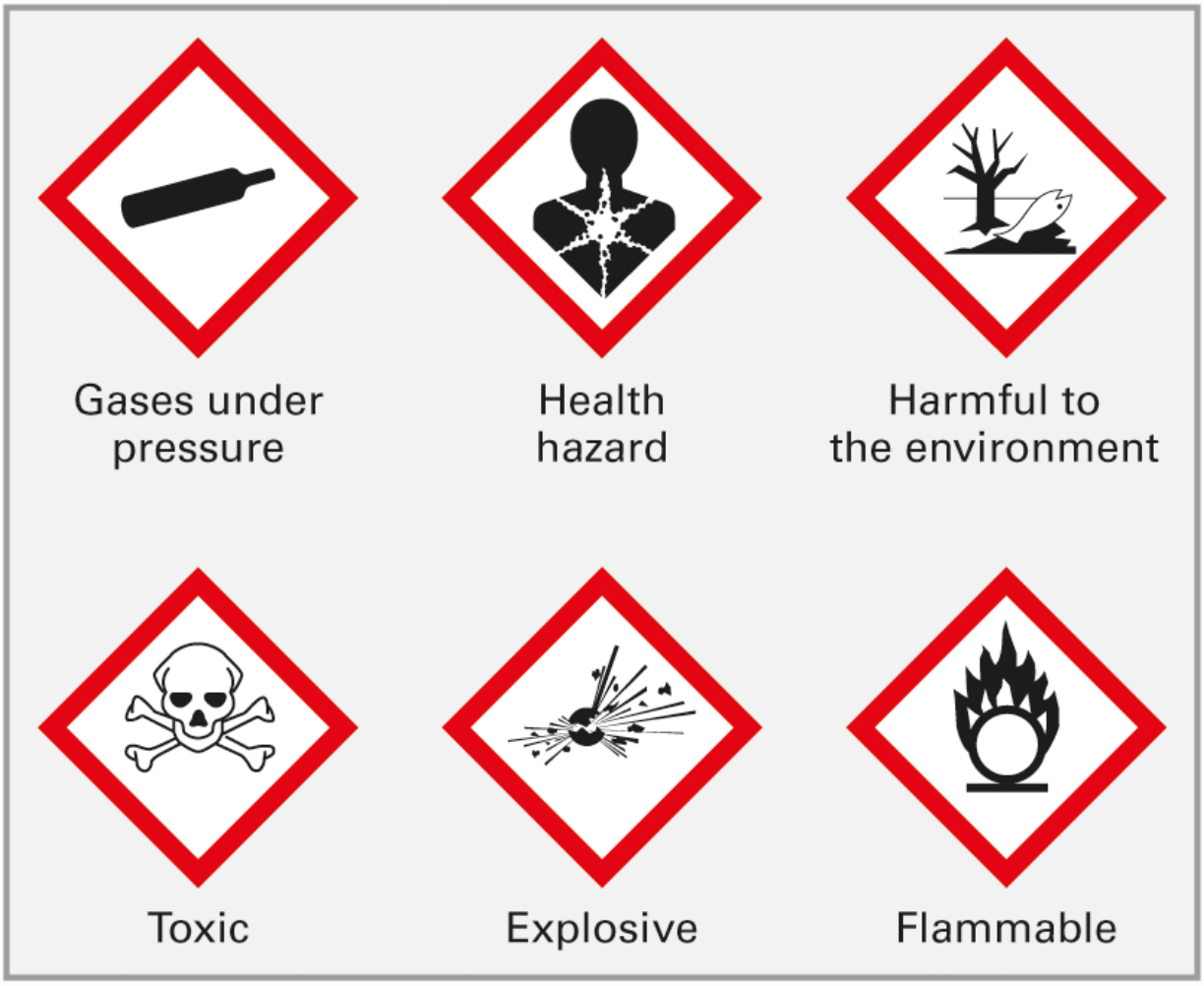
Flammable substances

Dangerous voltage

Caustic substances

Substances harmful to health or irritants





Substances	Hazards (selection)	Symbol	Safety recommendations (selection)
Brake pads, clutch linings, grinding dust	Health hazard when dust particles are inhaled.	 Irritant	Use vacuum extraction to remove dust, then bind it with a suitable substance and store it in securely sealed containers.
Solvents, cleaning agents for parts	Materials pose a potential health hazard when inhaled or swallowed.	 Mildly toxic Easily flammable	Avoid direct contact with the skin. Use protective skin cream. Keep away from sparks and flame, do not smoke.
Fuels for spark-ignition engines	Explosive, highly flammable. Toxic when inhaled, ingested or in case of contact with the skin. Carcinogenic.	 Highly flammable Toxic	Keep away from sparks and flame, do not smoke. Do not inhale fumes. Avoid contact with skin and eyes. Use protective skin cream. Never use as a cleanser.
Battery electrolyte	Caustic hazard to skin and eyes (danger of blindness). Irritates and damages mucous membranes in respiratory passages when inhaled.	 Caustic	Avoid direct skin contact. Keep shipping containers closed. Store in original containers only. Wear gloves, as well as eye and face protection where required. Ensure that the work area is well ventilated.
Engine oils of known and unknown origin, diesel fuel, gear oil.	Avoid repeated skin contact extending over long periods. Engine oil of unknown origin is assigned to Hazardous Material Class AI.	 Irritant Easily flammable	Use protective skin cream. In case of contact with skin or clothing, wash thoroughly using plenty of water. Keep well away from sparks and flame.
Box-section wax, undercoating, shipping wax, paint, paint residue, adhesives	Flammable. When inhaled, irritation and rashes affecting skin, mucous membranes, eyes and respiratory passages are possible; may also produce a numbing effect.	 Easily flammable Mildly toxic	Keep well away from sparks and flame. Ensure that the work area is well ventilated. Stored in tightly sealed containers in a well-ventilated area. Use protective skin cream. Wear protective gloves, with safety glasses or protective goggles as indicated.