Common Hazardous Wastes

Waste Oils

Engine oil,

Transmission fluid

Lubricating oil

Hydraulic oil

Gear oil

Transformer fluid

Cutting oil

Tempering or quenching oil

Grease

Brake fluid

Disposal

Recyclable, but contaminated

with: Solvents, chlorinated solvents, and other organic compounds e.g. naphthalene,

benzo(a)pyrene and TCE.

Metals

PCB contaminated oils are also

known to be sold illegally for

recycling or reuse, such as in

the following applications:

- Used for dipping cattle
- Making of candles
- Mixed with tractor fuel
- Used as base oil (less
- expensive than virgin oil)
- Mixed with cooking and olive

Batteries

Trend in reducing mercury content, but all batteries still highly hazardous (HR1 and 2) burning /incineration releases heavy metals into atmosphere with smoke (cadmium condenses onto the smallest particles that are difficult to contain)

Heavy metals disposed with ash (to landfill) Options: Recycle (recover metals); landfill (encapsulate)

- Mercury chloride
- Potassium hydroxide
- Tin
- · Zinc
- · Zinc Chloride

Rechargeable

- Cadmium
- · Nickel
- · Carbon black
- Lead
- Manganese dioxide
- Mercury

Disposable

Dry Cell Wet Cell

- Lead
- · Lead oxide
- · Lead sulphate
- Sulphuric acid

Lead Acid

Arsenic in older cathode ray tubes Selenium in circuit boards as power supply rectifier Polybrominated flame retardants in plastic casings, cables and circuit boards Antimony trioxide as flame retardant Cadmium in circuit boards and semiconductors Chromium in steel as corrosion protection Cobalt in steel for structure and magnetivity Mercury in switches and housing PCB's ·Antimony, Silver, Chromium, •Zinc, Lead, Tin and Copper

Hazardous elements and compounds

Lead in cathode ray tube and solder

·Plastics

·Flame retardants

Different types, not

(brominated)

·PVC's

	CACTERISTIC CONSTITUENTS AND	Concentration
Waste Code	Contaminants	5.0
D004	Arsenic	100.0
D005	Banum	0.5
D018	Benzene	
D006	Cadmium	1.0
D019	Carbon tetrachloride	0.5
D020	Chlordane	0.03
D021	Chlorobenzene	100.0
D022	Chloroform	6.0
D007	Chromium	5.0
D023	o-Cresol*	200 0
D024	m-Cresol*	200.0
D025	p-Cresol*	200.0
	Total Cresols*	200.0
D026	2,4-D	10.0
D016	1,4-Dichlorobenzene	7.5
D027	1.2-Dichloroethane	0.5
D028	1,1-Dichloroethylene	0.7
D029	2,4-Dinitrotoluene	0.13
D030		0.02
D012	Heptachlor (and its epoxide)	0.008
D031	Heptachior (and its epolate)	0.13
D032	Hexachlorobenzene	0.5
D033	Hexachlorobutadiene	3.0
D034	Hexachloroethane	5.0
D008	Lead	0.4
D013	Lindane	0.2
D009	Mercury	10.0
D014	Methoxychlor	200.0
D035	Methyl ethyl ketone	2.0
D036	Nitrobenzene	100 0
D037	Pentachlorophenol	5.0
D038	Pyridine	
D010	Selenium	1.0
D011	Silver	5.0
D039	Tetrachloroethylene	0.7
	Toxaphene	0.5
D015	Trichloroethylene	0.5
D040	2.4.5-Trichlorophenol	400.0
D041	2,4,6-Trichlorophenol	2.0
D042	2,4,5-TP (Silvex)	1.0
D017 D043	Vinyl chloride	0.2