

TABLE II. CHECKLIST

Activity		Most important substances	Reference numbers (Table IV)
Fuel storage	Delivery station	Petrol	6
	Car station	Petrol and LPG	7
	Intermediate depot	Petrol	6
		LPG	7, 9
	Main storage	Oil	1, 3
		Petrol	4, 6
		LPG	7, 9, 10, 11
Processing and storage of fuel	Gas cylinder storage	Natural gas	10, 11
		Various gases	13
	Refinery	LPG propane	7, 9
	Alkylation process	Hydrogen fluoride	31
	Naphtha cracker	Butylene	7, 9
		Ethylene	12
		Ethylene oxide	30
Transport of fuel		Propylene	7, 9
		Vinyl chloride	7, 9
	Pipeline	LPG, propane	8
		Natural gas	12
		Petrol	5
		Oil	2
	Water (inland waterways)	LPG (by pressure)	9
Extensive cooling installation		LPG (by cooling)	11
		Petrol	6
		Oil	3
	Rail/road	LPG	7
		Petrol	6
		Oil	4
	Abattoir, dairy, brewery, margarine, icecream, chocolate industries, storage of meat, fish, fruit, flowers, ice rink	Ammonia	31
Food and stimulants	Sugar industry	Sulphur dioxide	31
	Flour industry	Methyl bromide	32
	Extraction of oils/fats	Hexane	1, 3
	Yeast factory, spirit distillery	Flammable liquids	4, 6
	Cocoa industry	Hexane	1, 3

TABLE II. (cont.)

Activity		Most important substances	Reference numbers (Table IV)
Specific basic products	Leather industry	Acroleine acids	18, 21
	Wood industry	Formaldehyde	32
	Paper industry	Ethylene oxide	30
		Epichlorohydrine	16, 17
	Rubber industry	Styrene	4, 6
Metallurgical, electronic industries		Acrylonitril	18, 21
	Textile auxiliaries	Ethylene oxide	30
		Formaldehyde	32
		Alkyl phenols	
	Blast furnaces	Carbon monoxide	31
Specific chemicals	Surface treatment	Ammonia	31
		Arsine	34
	Fertilizers	Ammonia	31, 36
		Combustion products	43
	Sulphuric acid	Sulphur oxides	45
	Synthetic resins	Ethylene oxides	30
		Chlorine	32
		Acrylonitrile	18, 21
		Phosgene	33
		Formaldehyde	32
	Plastics/synthetics	Vinyl chloride	7, 9
		Acrylonitrile	18, 21
		Chlorine	32
		Combustion products	46
	Paints/pigments	Phosphene	33
		Solvents	4, 6
		Combustion products	46
	Chloro-fluorocarbons (CFCs)	Hydrogen chloride	40, 42
		Chlorine	32
		Hydrogen fluoride	31
	Chlorine	Chlorine	32, 37
	Vinylchloride	Chlorine	32
		Vinyl chloride	7, 9
		Hydrogen chloride	40, 42
	Ammonia	Ammonia	31, 36
	Hydrogen chloride	Hydrogen chloride	40, 42
		Chlorine	32
	Fibres	Carbon disulphide	18
		Hydrogen sulphide	32
	Drugs/pharmaceuticals	Chlorine	32
		Solvents	4, 6
	Polymerization	Butylene	7, 9
		Ethylene	12
		Propane	7, 9
		Vinyl acetate	1, 3
	Synthetic fibre	Methanol	1, 3
	Chlor alkali	Chlorine	32
		Hydrogen	12

TABLE II. (cont.)

Activity		Most important substances	Reference numbers (Table IV)
Pesticides	Raw material production	Phosgene	33
		Isocyanates	26, 29
	Formulation and storage	Chlorine	32
		Combustion products	43
		Combustion products	43
Explosives	Retail and storage	Combustion products	43
		Methylbromide	32
	Production and storage	Various	14
	Storage of ammunition	Various	14, 15
Public places and utilities	Waterworks	Chlorine	32
	Storage of pesticides	Combustion products	43
Harbour facilities	Containers	Various	a
	Tanks (storage facilities)	Various	a
Transport	Pipelines	Chlorine	41
		Ammonia	40
		Ethylene oxide	40
		Hydrogen chloride	41, 42
		Flammable gases <sup>b</sup> : 23, 236, 239	7
	Road and rail (also shunting yards)	Flammable liquids <sup>b</sup> : 33, 336, 338	
		339, 333,	
		x338, x323,	
		x423, 446	
		539	6
	Water	Toxic gases high <sup>b</sup> : 26, 265, 266	32
		Toxic gases medium <sup>b</sup> : 236, 268, 286	31
		Toxic liquids <sup>b</sup> : 336, 66, 663	19
		Explosives <sup>b</sup> : 1.1, 1.5	14
		Flammable gases <sup>b</sup> : 23, 236, 239	9 <sup>c</sup> , 11 <sup>d</sup>
		Flammable liquids <sup>b</sup> : 33, 336, 338	
		339, 333, x338	
		x323, x423,	
		446, 539	6
		Toxic gases high <sup>b</sup> : 26, 265, 266	32 <sup>e</sup> , 37 <sup>d</sup>
		Toxic gases medium <sup>b</sup> : 236, 268, 286	31 <sup>e</sup> , 36 <sup>d</sup>
		Toxic liquids <sup>b,e</sup> : 336, 66, 663	20

<sup>a</sup> See Appendix I for specific reference numbers.

<sup>b</sup> International classification codes for transport (also in Table IV).

<sup>c</sup> Pressurized.

<sup>d</sup> Cooled.

<sup>e</sup> Insoluble; specific weight  $\leq 1 \text{ kg/dm}^3$ .

TABLE IV(a). (cont.)

Ref. No.	Quantity (t)								
	0.2-1	1-5	5-10	10-50	50-200	200-1000	1000-5000	5000-10000	> 10000
1	-	-	-	-	-	A I	B I	B I	C I
2 <sup>a</sup>	-	-	-	-	-	-	-	-	-
3	-	-	-	A I	B I	C I	D II	X	X
4	-	-	-	-	-	B I	C II	C II	D II
5 <sup>a</sup>	-	-	-	-	-	-	-	-	-
6	-	-	-	B II	C II	D II	E II	X	X
7	-	A I	B I	C I	D I	E I	X	X	X
8 <sup>a</sup>	-	-	-	-	-	-	-	-	-
9	-	B II	C III	C III	D III	E III	X	X	X
10	-	-	-	-	-	B I	C II	C II	D II
11	-	-	-	B II	C II	D II	E II	X	X
12 <sup>a</sup>	-	-	-	-	-	-	-	-	-
13	-	-	C III	C II	C I	C I	X	X	X
14	A I	B I	B I	C I	C I	D I	X	X	X
15	B III	B III	C III	C I	C I	D I	X	X	X
16	-	-	-	-	-	A II	A II	B II	C III
17	-	-	-	A III	A II	B II	C II	C II	C II
18	-	-	-	A III	B III	D III	E III	F III	F III
19	-	A II	C III	D III	X	X	X	X	X
20	-	B II	D III	E III	F III	G III	X	X	X
21	-	B II	C III	D III	E III	F III	F III	X	X
22	-	-	A II	B III	C III	E III	F III	G III	G III
23	B II	C II	D III	E III	X	X	X	X	X
24	C II	D II	E III	F III	G III	G III	X	X	X
25	B II	C II	D III	E III	F III	F III	G III	X	X
26	A II	B II	C III	E III	F III	G III	G III	H III	H III
27	C II	D III	E III	F III	X	X	X	X	X
28	D III	E III	F III	G III	H III	H III	X	X	X
29	C III	D III	E III	F III	G III	H III	H III	X	X
30	A II	B II	B II	C III	C II	D III	D III	D III	E III
31	B II	C II	C II	D III	E III	F III	F III	G III	H III
32	C II	D III	E III	E III	F III	G III	G III	X	X
33	D III	E III	F III	G III	G III	H III	X	X	X
34	E III	F III	G III	H III	H III	X	X	X	X
35	-	-	-	A II	A II	B II	B II	C II	D III
36	-	A II	B II	C II	D III	D III	E III	F III	G III
37	B II	C II	D III	E III	E III	F III	F III	G III	H III
38	D III	E III	F III	F III	G III	G III	X	X	X
39	E III	F III	G III	H III	H III	X	X	X	X
40 <sup>a</sup>	-	-	-	-	-	-	-	-	-
41 <sup>a</sup>	-	-	-	-	-	-	-	-	-
42 <sup>a</sup>	-	-	-	-	-	-	-	-	-
43	-	-	-	B II	D III	E III	E III	X	X
44	-	A II	A II	C III	E III	F III	F III	X	X
45	-	-	A II	B II	C III	D III	D III	X	X
46	-	-	-	A II	C III	D III	D III	X	X

Symbols: X means the combination of that substance and that amount does not exist in practice; - means ignorable effects.

<sup>a</sup> Categories for pipelines are shown in Table IV(b)