

***Training on identification of hazardous activities
23-24 March 2010, Skopje***

***Annex I of the Convention and
Annex I of the SEVESO II
Directive***

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Structure of Annex I of the Convention

Part I – Categories of substances and preparations not specifically named in Part II (8)

Part II – Named substances (12)

Named substances –
Substances of high concern /TDI,
Methyl isocyanate,
Phosgene, Chlorine/
Widely used substances /Ammonium nitrate,
LPG, Petroleum products/

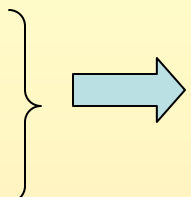
Structure of Annex I of the SEVESO II Directive

Part I – Named substances (30)

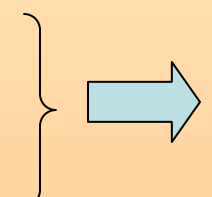
Part II - Categories of substances and preparations not specifically named in Part I (10)

Categories of substances and preparations not specifically named
Based on generic toxicological, physical-chemical or ecotoxicological properties
Characteristic endpoints – LD50, LC50, EC50, flashpoint, etc.








Named substances

- Convention: **12** substances
 - Seveso II Directive: **30** substances
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Categories of substances and preparations not specifically named

- Convention: **8** categories
 - Seveso II Directive: **10** categories
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Part I – Categories of substances and preparations not specifically named in Part II (Annex I of the Convention)

Category	Threshold Quantity (Tones)
1. Flammable (note 2)	50 000
2a. Highly flammable (note 3a and b) 	200
2b. Highly flammable (note 3c)	50 000
3. Extremely flammable (note 4) 	50
4. Toxic (note 5) 	200
5. Very toxic (note 6) 	20
6. Oxidizing (note 7) 	200
7a. Explosive, where the substance, preparation or article falls under Division 1.4 of the GHS criteria (note 8)	200
7b. Explosive, where the substance, preparation or article falls under Division 1.1, 1.2, 1.3, 1.5 or 1.6 of the GHS criteria (note 8) 	50
8a. Dangerous for the environment – “Toxic to aquatic organisms” (note 9) 	500
8b. Dangerous for the environment – “Very toxic to aquatic organisms” (note 10)	200

Part 2 – Categories of substances and preparations not specifically named in Part 1 (Annex I of the SEVESO II Directive)

Column 1	Column 2	Column 3
Categories of dangerous substances	Qualifying quantity (tonnes) dangerous substances as delivered in Art.3(4), for the application of	
	Articles 6 and 7	Article 9
1. Very toxic	5	20
2. Toxic	50	200
3. Oxidizing	50	200
4. Explosive (see note 2) where the substance, preparation or article falls under UN/ADR Division 1.4	50	200
5. Explosive (see note 2) where the substance, preparation or article falls under any of: UN/ADR Division 1.1, 1.2, 1.3, 1.5 or 1.6 or risk phrase R2 or R3	10	50

Column 1	Column 2	Column 3
Categories of dangerous substances	Qualifying quantity (tonnes) dangerous substances as delivered in Art.3(4), for the application of	
	Articles 6 and 7	Article 9
6. Flammable (where the substance or preparation falls within the definition given in note 3a)	5 000	50 000
7a. Highly flammable (where the substance or preparation falls within the definition given in note 3b 1)	50	200
7b. Highly flammable liquids (where the substance or preparation falls within the definition given in note 3b 2)	5 000	50 000
8. Extremely flammable (where the substance or preparation falls within the definition given in note 3c)	10	50

Column 1	Column 2	Column 3
Categories of dangerous substances	Qualifying quantity (tonnes) dangerous substances as delivered in Art.3(4), for the application of	
	Articles 6 and 7	Article 9
9. Dangerous for the environment risk phrases:	100	200
i) R50: Very toxic to aquatic organisms (including R50/R53)		
ii) R51/R53: Toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment	200	500
10. Any classification not covered by those given above in combination with risk phrases:		
i) R14: Reacts violently with water (including R14/R15)	100	500
ii) R29: in contact with water, liberates toxic gas	50	200

Part II – Named substances (Annex I of the Convention)

Substance	Threshold Quantity (Tones)
1. Ammonium nitrate (note 11,12,13,14)	10.000/5.000/2.500/50
2. Potassium nitrate (note 15,16)	10.000/5.000
3. Chlorine	25
4. Ethylene oxide	50
5. Hydrogen	50
6. Toluene diisocyanate	100
7. Sulfur-trioxide	75
8. Lead alkyls	50
9. Phosgene	0,75
10. Methyl isocyanate	0,15
11. Liquefied extremely flammable gases (including LPG) and natural gas	200
12. Petroleum products: gasolines and naphthas; kerosens (including jet fuels); gas oils (including diesel fuels, home heating oils and gas oil blending streams)	25.000

Part 1 – Named substances (Annex I of the SEVESO II Directive)

Column 1	Column 2	Column 3
Dangerous substances	Qualifying quantity (tonnes) for the application of	
	Articles 6 and 7	Article 9
Ammonium nitrate (see note 1)	5 000	10 000
Ammonium nitrate (see note 2)	1 250	5 000
Ammonium nitrate (see note 3)	350	2 500
Ammonium nitrate (see note 4)	10	50
Potassium nitrate (see note 5)	5 000	10 000
Potassium nitrate (see note 6)	1 250	5 000
Bromine	20	100
Chlorine	10	25
Hydrogen	5	50

Column 1	Column 2	Column 3
Dangerous substances	Qualifying quantity (tonnes) for the application of	
	Articles 6 and 7	Article 9
Lead alkyls	5	50
Liquefied extremely flammable gases (including LPG) and natural gas	50	200
Ethylene oxide	5	50
Methylisocyanate		0,15
Toluene diisocyanate	10	100
Carbonyl dichloride (phosgene)	0,3	0,75
Sulphur trioxide	15	75
Petroleum products: a)gasolines and naphthas, b)kerosens (including jet fuels), c)gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2 500	25 000

Determining the threshold quantities for the dangerous substances

Annex I of the Convention

For named substances

Threshold quantities in Part II of Annex I

Mixtures and preparations – treated as the pure substance unless they no longer exhibit equivalent properties and are not capable of producing **transboundary effects**

For categories of substances and preparations not specifically named in Part II of Annex I

Threshold quantities in Part I of Annex I

Annex I of the SEVESO II Directive

For named substances

Threshold quantities in Columns 2 and 3 of Part 1 of Annex I

If in preparations

Recalculation to pure substances

As long as the preparations possess hazardous properties

For categories of substances and preparations not specifically named in Part 1 of Annex I

Threshold quantities in Columns 2 and 3 of Part 2 of Annex I

If multiple classifications – the lowest threshold

If in preparations

As long as the preparations possess the hazardous properties

Annex I of the Convention

Where a substance or preparation named in Part II also falls within a category in Part I, the threshold quantity set out in Part II shall be used

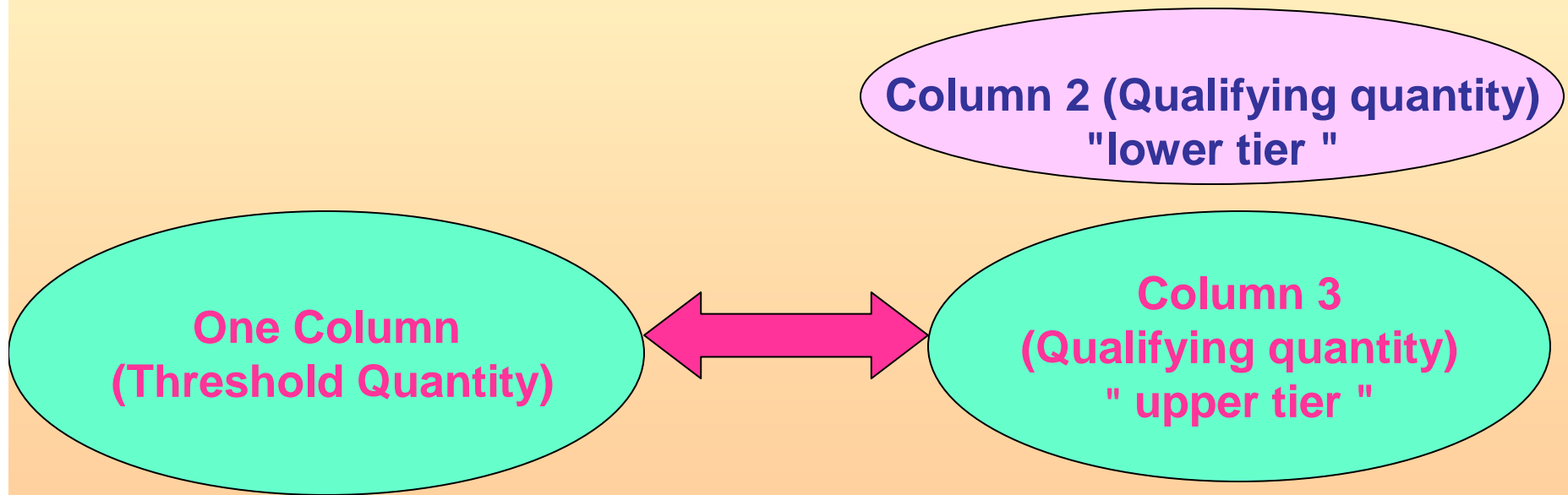
Annex I of the SEVESO II Directive

Where a substance or group of substances listed in Part I also falls within a category of Part II, the qualifying quantities set out in part I must be used

Qualifying quantities

**Annex I of the
Convention**

**Annex I of the SEVESO
II Directive**



Threshold quantities in Part I and Part II of Annex I of the Convention are in compliance with adequate threshold quantities in Column 3 of Part 1 and Part 2 of Annex I of the SEVESO II Directive (upper-tier establishments)

Explanatory Notes – Indicative criteria

- flammable liquids
- highly flammable liquids
- extremely flammable gases and liquids
- explosive

**The same in the
both Annexes**

- toxic
- very toxic
- oxidizing
- dangerous for the environment

Annex I of the Convention

- **Ammonium nitrate – 4 notes**
- **Potassium nitrate – 2 notes**

**The same in the
both Annexes**

Conclusion

- The scope of the Seveso II Directive follows a *two-tier approach* which means that for each named substance and for each generic category of substances and preparations, two different *qualifying quantities* (threshold levels) are mentioned in Annex I, Parts 1 and 2 of the Directive, a lower and an upper value.
- The scope of the Convention follows *one-tier approach* which means that for each named substance and for each generic category of substances and preparations, one *qualifying quantity* (threshold levels) is mentioned in Annex I, Parts I and II of the Convention, an upper value.
- According to Council Decision 98/685/EC of 23 March 1998, for EU member States all establishments covered by article 9 of Council Directive 96/82/EC of 9 December 1996 (Seveso II), i.e. upper-tier establishments, are taken to meet substance and quantity criteria under the Convention.

***THANK YOU
FOR YOUR
ATTENTION!***

