

SEVESO-III-DIRECTIVE



DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
OF 4 JULY 2012

7.VNU – Environmental Manager Day, 10.10.2019 in Sofia

Short presentation by

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WHY ?



SHORT MOVIE [HTTPS://MULTIMEDIA.SWR.DE/BASF-KATASTROPHE#6492](https://multimedia.swr.de/basf-katastrophe#6492)



SUMMARY



-
- OBJECTIVE
 - SCOPE
 - DISTINCTIONS
 - IMPLEMENTATION OF REQUIREMENTS



OBJECTIVE OF THE DIRECTIVE

Article 1

Subject matter

This Directive lays down rules for the prevention of major accidents which involve dangerous substances, and the limitation of their consequences for human health and the environment, with a view to ensuring a high level of protection throughout the Union in a consistent and effective manner.



- Avoid accidents
- Limit consequences of accidents
- High level of protection for the whole union



SCOPE



'establishment' means the whole location under the control of an operator where dangerous substances are present in one or more installations, including common or related infrastructures or activities; establishments are either lower-tier establishments or upper-tier establishments;



- an establishment where **hazardous substances** are present -

Eine Einrichtung, ein Betrieb mit **gefährliche Stoffen** im Lager und/oder in der Produktion



SCOPE

Exceptions:

- Military facilities
- Substances with ionizing radiation
- Transportation / temporary storage of hazardous substances
- Dangerous substances in pipelines
- Minerals (off-/ onshore) including hydrocarbons
- Underground offshore storage of gas
- Landfill (Deponie).

- (a) military establishments, installations or storage facilities;
- (b) hazards created by ionising radiation originating from substances;
- (c) the transport of dangerous substances and directly related intermediate temporary storage by road, rail, inland waterways, sea or air, outside the establishments covered by this Directive, including loading and unloading and transport to and from another means of transport at docks, wharves or marshalling yards;
- (d) the transport of dangerous substances in pipelines, including pumping stations, outside establishments covered by this Directive;
- (e) the exploitation, namely the exploration, extraction and processing, of minerals in mines and quarries, including by means of boreholes;
- (f) the offshore exploration and exploitation of minerals, including hydrocarbons;
- (g) the storage of gas at underground offshore sites including both dedicated storage sites and sites where exploration and exploitation of minerals, including hydrocarbons are also carried out;
- (h) waste land-fill sites, including underground waste storage.



DISTINCTIONS

Depending on the amount of hazardous substances in the establishment, they are either lower- or upper-tier.



PART 1 Categories of dangerous substances		
This Part covers all dangerous substances falling under the hazard categories listed in Column 1:		
Column 1	Column 2	Column 3
Hazard categories in accordance with Regulation (EC) No 1272/2008	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	
	Lower-tier requirements	Upper-tier requirements
Section 'H' – HEALTH HAZARDS		
H1 ACUTE TOXIC Category 1, all exposure routes	5	20
H2 ACUTE TOXIC — Category 2, all exposure routes — Category 3, inhalation exposure route (see note 7)	50	200
H3 STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE STOT SE Category 1	50	200



Tool will be shown

If necessary, the summation rule laid down in note 4 to Annex I must be used!



DISTINCTIONS

Depending on the amount of hazardous substances in the establishment, they are either lower- or upper- tiers

For all areas, general operator obligations apply, such as Concept for the prevention of serious accidents, Informing the public, disclosure of admission procedures, reporting requirements,

Operator of an upper-tier establishment have several additional obligations:

- Safety Management System
- Safety report
- Emergency plans
- Competent authorities: communication, examination, exchange



IMPLEMENTATION OF REQUIREMENTS

- Part of the safety report is it u.a. to provide sufficient information to the competent authority to enable it to make decisions about settling in the neighborhood
- Article 13 - *Supervision of establishment* - obliges Member States to carry out holistic inspections which indirectly (through **distances** as large as possible) reduce the impact of accidents
- Article 15 - *public consultation and public participation in decision-making* - even includes the public



IMPLEMENTATION OF REQUIREMENTS

ANNEX I		
DANGEROUS SUBSTANCES		
Dangerous substances covered by the hazard categories listed in Column 1 of Part 1 of this Annex are subject to the qualifying quantities set out in Columns 2 and 3 of Part 1.		
Where a dangerous substance is covered by Part 1 of this Annex and is also listed in Part 2, the qualifying quantities set out in Columns 2 and 3 of Part 2 apply.		
PART 1		
Categories of dangerous substances		
This Part covers all dangerous substances falling under the hazard categories listed in Column 1:		
Column 1	Column 2	Column 3
Hazard categories in accordance with Regulation (EC) No 1272/2008	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10), for the application of	
	Lower-tier requirements	Upper-tier requirements
Section 3F – HEALTH HAZARDS		
H1 ACUTE TOXIC Category 1, all exposure routes	5	20
H2 ACUTE TOXIC — Category 2, all exposure routes — Category 3, inhalation exposure route (see note 7)	50	200
H3 STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE STOT SE Category 1	50	200
Section 3P – PHYSICAL HAZARDS		
P1a EXPLOSIVES (see note 8)	10	50

Tool: (will be shown)



- Classification from the registration dossier
- Classification from the MSDS
- Legal classification
- Calculate classification for mixtures



IMPLEMENTATION OF REQUIREMENTS

Official Journal of the European Union		
Column 1	Column 2	Column 3
Hazard categories in accordance with Regulation (EC) No 1272/2008	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	
	Lower-tier requirements	Upper-tier requirements
P4 OXIDISING GASES Oxidising gases, Category 1	50	200
P5a FLAMMABLE LIQUIDS — Flammable liquids, Category 1, or — Flammable liquids Category 2 or 3 maintained at a temperature above their boiling point, or — Other liquids with a flash point ≤ 60 °C, maintained at a temperature above their boiling point (see note 12)	10	50
P5b FLAMMABLE LIQUIDS — Flammable liquids Category 2 or 3 where particular processing conditions, such as high pressure or high temperature, may create major-accident hazards, or — Other liquids with a flash point ≤ 60 °C where particular processing conditions, such as high pressure or high temperature, may create major-accident hazards (see note 12)	50	200
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5 000	50 000




H224 → C1
H225 → C2
H226 → C3

H225 → C2
H226 → C3



IMPLEMENTATION OF REQUIREMENTS

Details in a workshop or in a process... 

Official Journal of the European Union		
Column 1	Column 2	Column 3
Hazard categories in accordance with Regulation (EC) No 1272/2008	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	
	Lower-tier requirements	Upper-tier requirements
Section 'E' – ENVIRONMENTAL HAZARDS		
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500



H400 → C1
H410 → C1
H411 → C2



IMPLEMENTATION OF REQUIREMENTS

9.4.2018	EN	Official Journal of the European Union	C 124/1
IV			
(Notices)			
NOTICES FROM EUROPEAN UNION INSTITUTIONS, BODIES, OFFICES AND AGENCIES			
EUROPEAN COMMISSION			
Commission notice on technical guidance on the classification of waste			
(2018/C 124/01)			

Don't forget the waste



IMPLEMENTATION OF REQUIREMENTS

<i>Table 1</i>	
Properties of waste which render it hazardous (description taken from WFD, Annex III)	
Hazardous Properties	
HP1	Explosive
HP2	Oxidising
HP3	Flammable
HP4	Irritant — skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
HP7	Carcinogenic
HP8	Corrosive
HP9	Infectious

Extract from
HPI to HP15



THE IMPORTANT POINTS TO START

Determination of the situation on site

For this you need:

- REACH: (EC) No 1907/2006 for data collection
- CLP: (EC) No 1272/2008 for classification / labeling
Both specifications can be found in the SDS of each substance or mixture
- (2018 / c 124/01) Technical guidance on the classification of Waste according to the Waste Framework Directive 2008 /98/EC
- Hazardous substances **list with capacities**
- A tool for easier determination of the scope

Thereafter, contact is made with the competent authority

