

Identification of hazardous activities using Annex I

Giorgio Mattiello

**Italian Ministry for the Environment, Land and Sea
Expert**



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Background Information

□ Company X

Substance	CAS No	Amount (tonn)
Chlorine	7782-50-5	15
N,N-dimethyl- toluidine, 0.28%	99-97-8	50
Propylene-imine, 6%	75-55-8	50
Propane, gaseous	74-98-6	50
Isobutane, gaseous	75-28-5	100
Heptane	142-82-5	200

Classification of Substances

- Checking available data
 - Safety data sheet
 - Information systems
 - Comparing against hazard criteria
 - National classification of chemicals
 - Annex I entries
 - Named substances
 - Endpoints for categories of substances and preparations
 - Concentration limits for preparations
 - Comparing against threshold quantities
 - For the different Part I generic entries
 - Add all substances with the same properties
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Classification of Substances

Substance	CAS No.	Amount	Classification
Chlorine	7782-50-5	20	Named substance
N,N-dimethyl- toluidine, 0,75%	99-97-8	85	Not classified
Propylene imine, 5%	75-55-8	50	Toxic
Propane	74-98-6	50	Extremely flammable
Isobutane	75-28-5	100	Extremely flammable
Heptane	142-82-5	200	Dangerous for the environment, Highly flammable 2b

Classification of the hazardous activity (1)

□ Toxic and very toxic substances

- A - Propylene imine – above the concentration limits – 50 tonnes on site
- B - Chlorine – 15 tonnes on site
- C - N,N-dimethyl-toluidine – below the concentration limits – not classified
- (A) 200 tonnes threshold, (B) 25 tonnes for Chlorine

■ Addition of the quantities

- $50/200 + 15/25 = 0.85 < 1$
 - **The establishment does not qualify as a hazardous activity based on the toxic substances onsite**
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Classification of the hazardous activity (2)

- Flammable, explosive and oxidising substances
 - Propane - Extremely flammable gas – 50 tonnes
 - Isobutane - Extremely flammable gas – 100 tonnes
 - Threshold – 50 tonnes
 - Heptane - Highly flammable liquid (2b) – 200 tonnes
 - Threshold – 50 000 tonnes
 - **Addition of the quantities**
 - $50/50 + 100/50 + 200/50000 = 3.004$
 - **The establishment does qualify as a hazardous activity**
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Thank you for your attention

g.mattiello@vegapark.ve.it
