

# Identification of hazardous activities using Annex I

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# Background Information

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## □ Company X

<b>Substance</b>	<b>CAS No</b>	<b>Amount (tonn)</b>
Chlorine	7782-50-5	15
N,N-dimethyl- toluidine, 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

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# Classification of Substances

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- 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

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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

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# Classification of the hazardous activity (1)

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## □ 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) BUT 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)

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## □ 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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