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**UNECE Convention on the Transboundary
Effects of Industrial Accidents**

**Capacity-building activity within the
Assistance Programme**

Training on identification of hazardous activities

Minsk, 21-22 October 2008
Command and Engineering Institute



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Training on identification of hazardous activities

Session I

Good practices for collecting, processing, maintaining and
updating information on hazardous activities

The Dutch Approach

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The Netherlands (and its neighbours Belgium and Germany)



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Transboundary accident 1, last week Cloud of HF from the Netherlands to Germany

ma 13 okt 2008, 15:22

Fabriek ontruimd na chemische reactie

HEERLEN - Zonnecellenfabriek Solland Solar in Heerlen is maandagmiddag ontruimd nadat in het bedrijf een vat met chemicaliën was gescheurd.

Ongeveer tweehonderd medewerkers moesten het fabrieksgebouw verlaten. Zij moesten zich door familie en kennissen laten ophalen, omdat ze niet meer bij hun eigen autosleutels konden.

Drie medewerkers en een cameraman van de regionale omroep L1 zijn naar het ziekenhuis gebracht omdat ze een vreemde smaak in de mond hadden als gevolg van het inademen van de giftige





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Transboundary accident 2, three weeks ago Cloud of H₂S and benzene from Belgium to the Netherlands

Antwerpen

nieuwsblad.be/antwerpen - antwerpen@nieuwsblad.be

Esso ontruimd na gaslek

03/09/2008

Klachten over geurhinder tot voorbij de Nederlandse grens

ANTWERPEN - Alle werknemers van de raffinaderij Esso, zo'n 600 mensen, moesten gisterenmiddag hun werkplek verlaten na een stroompanne. Door de stroomuitval was er stoom met gasrestanten vrijgekomen. Klachten over geurhinder waren er tot in Essen en zelfs voorbij de Nederlandse grens.

Omstreeks 12.30 uur werd gisterenmiddag een gaslek vastgesteld bij Esso op de Polderdijkweg in de Antwerpse haven. Na een stroomonderbreking waren even daarvoor de leidingen onder zware druk komen te staan. De brandweer moest daarom het gas in de leidingen affakkelen (het verbranden van vrijgekomen gas). Aan één van de overdrukventielen was echter ook stoom vrijgekomen met daarin restanten van nafta en waterstofsulfide, een sterk ruikend gas. 'In hoge concentraties is dit gas giftig', aldus brandveerwoordvoerder Johan Van Olmen. 'Maar wij hebben op geen enkel moment meer dan 0,2 ppm (parts per million, n.v.d.r.) gemeten. Wat hoogstens braakneigingen of duizeligheid kan veroorzaken.' Uit



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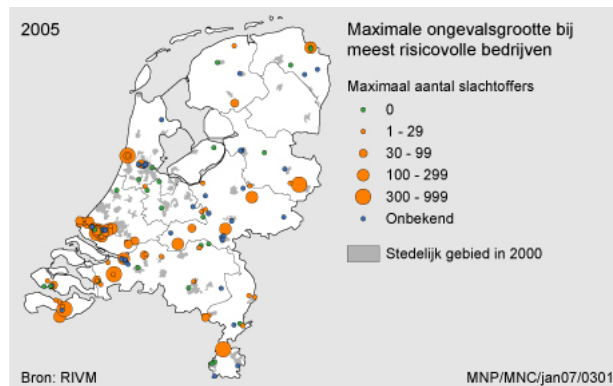
Transboundary accident 2, three weeks ago Cloud of H₂S and benzene from Belgium to the Netherlands





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Hazardous industrial activities in the Netherlands



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Good practices for collecting, processing, maintaining and updating information on hazardous activities

What data?
How to collect and by whom?
How to process, maintain and update?



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What data of relevant chemical sites are collected in the Netherlands?

Sites under the Chemical accidents Convention (UN)

Sites under the Seveso II Guideline (EU)

Sites under the IPPC Guideline (EU)

Sites under the Environmental Protection Law (NL)



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Sites under specific regimes in the Netherlands

Chemical Accidents Convention (10 sites)

Seveso II (350 sites)

IPPC (1100 sites)

Environmental Protection Law (10.000 sites)



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List of sites under the Chemical Accidents Convention in the Netherlands

Hazardous site (name)	Type of activity (general)	Location in the Netherlands
1. Akzo Nobel Chemicals bv	Chlorine (production)	Farmsum, Groningen
2. Teijin Aramid	Polymers (production)	Farmsum, Groningen
3. Chemelot bv	Basic chemicals (production)	Geleen, Limburg
4. Ciba specialty chemicals	Specialty chemicals (production)	Maastricht, Limburg
5. Honeywell fluorine products Europe	Hydrogen fluoride (storage)	Weert, Limburg
6. NV Rotterdam-Rijn pijpleiding	Oil products (storage)	Venlo, Limburg
7. Oiltanking Terneuzen	Oil products (storage)	Hoek, Zeeland
8. Veembedrijf de Rijke bv	Specialty chemicals (storage)	Sluiskil, Zeeland
9. Yara Sluiskil bv	Ammonia and fertilizer (production)	Sluiskil, Zeeland
10. Zuid-chemie bv	Ammonia and fertilizers (production)	Sas van Gent, Zeeland



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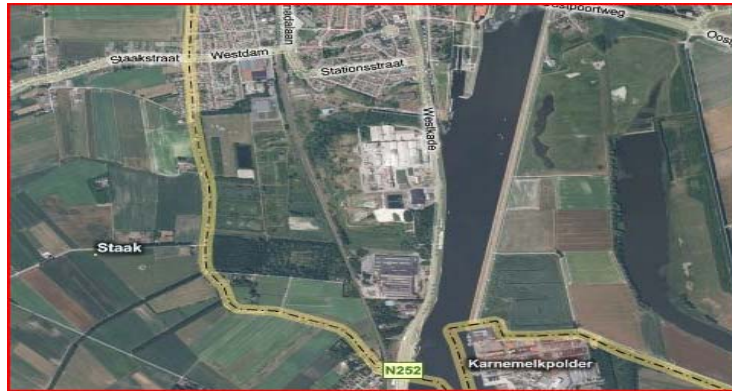
Typical example of a chemical site under the Chemical Accidents Convention





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Typical example of a chemical site under the Chemical Accidents Convention



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What data of all relevant chemical sites are collected in the Netherlands?

Type of Industry
Amount of chemicals stored and processed
Lay out of the site
Exhaustive description of the activities, processes, its danger potential and safety precautions
Location



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Sources of data of relevant chemical sites in the Netherlands?

Documents from the site owner

License Application

Safety Report

Documents from the authorities

Licenses

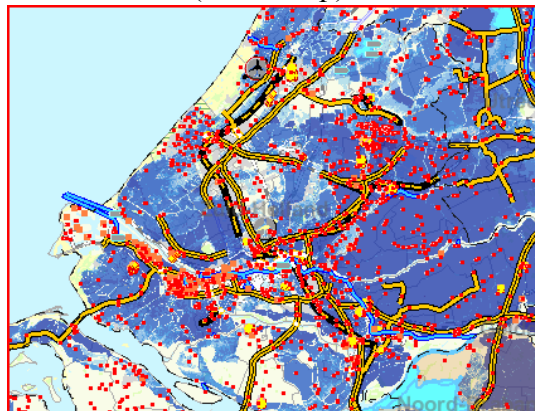
Databases

Riskmaps



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An example of reporting of risks in the Netherlands (a risk map)





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How do we collect, process, update data of relevant chemical sites in the Netherlands?

Local authorities collect
Scientific institute RIVM gathers, processes
Dutch government reports
Dutch industry cooperates
Regular meetings with neighbouring countries



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Experiences on processing, maintaining and updating data in the Netherlands?

Hard, timeconsuming and unpopular work
Bad data until 2001
Huge improvement since 2001



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References
to check the situation in the Netherlands

<http://www.rivm.nl/milieuportaal/onderwerpen/veiligheid/externe-veiligheid/>

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http://geo.zuid-holland.nl/risicokaart_publick/