

## EXPERIENCE THE ADVANTAGE OF THE SPECIALIST!

# Gasfree on site

## RESIDUAL GASES IN CONTAINERS

Benefits and advantages. These are the key issues within EWS. You can rely on our expertise in the field of fumigation. Designing a good fumigation strategy is thinking ahead. Do you prefer the benefits of the specialist? Then choose for expertise in fumigation, monitoring, degassing and gasfree measurements. You also choose for the service of short communication lines, craftsmanship and a 24 Hr service. Try and let the benefits lead you.

### Expertise

#### gas measurements, degassing, fumigation

- vessels
- cargo containers
- bulk cargo
- silos and stacks
- railcars
- trucks



### Reachability

- ship cargos
- factories
- airplanes
- barges, yachts
- antiques, furniture
- quarantine fumigation
- dunnage/ISPM 15



### Service

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#### Belgium PPD/EWS N.V.

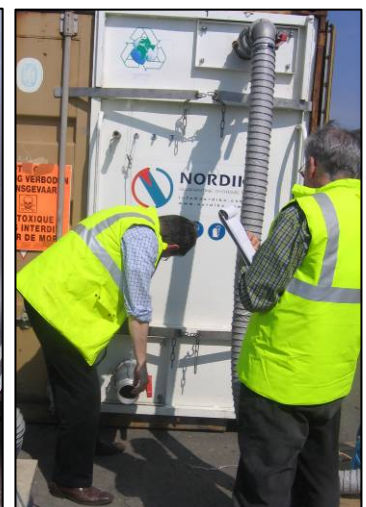
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It is not uncommon that containers arriving from overseas contain fumigants and/or production gases in concentrations exceeding the "Maximum Allowable Concentration" (MAC-value). As a consequence these gas concentrations can damage health either through one or repeated exposures.

It is difficult to predict the presence of residual gases as it depends on factors such as the fumigant used, the fumigation process, the materials and production processes used to manufacture the cargo.

EWS can monitor the levels of residual gases and can ventilate containers when concentrations exceed allowed limits. Once the residual gases are removed we declare the container "Gas Free" and issue a gas monitoring report that includes gas concentration levels detected.

Ventilation by means of natural airflows by simply leaving container doors open can take days. Forced ventilation is an economical choice as it reduces the time necessary to remove high concentration of residual gas. EWS uses patented NORDIKO® VENTILATION & GAS RECAPTURE SYSTEMS



[www.ews-fumigation.com](http://www.ews-fumigation.com)

THE ADVANTAGE OF THE SPECIALIST

# Our services

## Risk Inventory and Evaluation (RI&E)

Stripping a container, in which the level of residual gases is unsafe, could be a threat to one's health. It is therefore necessary to make a Risk Inventory and Evaluation (RI&E) for each container and to link this to a balanced monitoring strategy. A professional monitoring and checking system can prevent health risks and accidents caused by highly toxic fumigants.

## Monitoring of residual gases and gas monitoring report

All residual gases, listed by the Dutch regulatory authorities, will be monitored by EWS. This could be fumigation gases or volatile compounds used during production. If no increased levels are detected, a gas monitoring report will be issued with the advice: "safe to be unpacked".

## Identification of residual gases

When unknown gases or vapors are monitored in the container, which are not listed by the Dutch regulatory authorities, EWS can, on demand of the customer, identify this gas in our laboratory. We will take samples of this gas and the samples will be analyzed by gaschromatografie. Based on these results our experts will give you a professional safety advice.

## Removal of residual gases

Containers fumigated with phosphine ( $\text{PH}_3$ ) often contain solid residues of the fumigant. When these are present, we can remove and dispose them in according to relevant legislation.

## Forced ventilation using NORDIKO® systems

It is necessary to ventilate when the measured levels exceed the MAC-value. An open-door ventilation can take days. Forced ventilation, with or without the use of a filter, is an economical choice. For forced ventilation, EWS uses patented NORDIKO® VENTILATION & GAS RECAPTURE SYSTEMS.

## Monitoring for customs on site

Once customs have selected your container for a check on site, a gas monitoring report is obliged. As stipulated by custom's, this report may not be older than two hours. We can offer you our complete services (monitoring and degassing) on site.

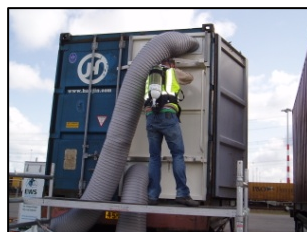


## Speed, accuracy and reliability is provided by our mobile gaslabs with a SYFT-Voice 200

In addition to our measuring units, in combination with the traditional PID meters, Dräger MX-7000, Spectros and a complete set of sampling tubes, EWS also has several analytical gas measuring units. These are equipped with SYFT-Voice 200 analyzer. The SYFT (Selective Ion Flow Tube) is able to very quickly detect, define and measure more than four hundred gases.

The SYFT is computer-controlled, which several advantages:

- The analysis takes only minutes.
- The measuring report is emailed to the client immediately from an internet connection in the mobile gaslab.
- Preset measuring programs, which can be adapted to meet i.e. Dutch, Belgium or German regulatory requirements.
- Monitoring programs include 15, 25 or more gases, which can be adapted to meet the requirements of the client-specific measurement protocol, as defined in the risk inventory (RI&E).
- Online customized measurement protocol, instant results and immediate reporting via email.



[www.toxfreecontainer.com](http://www.toxfreecontainer.com)

