

TNO-report

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**AN ASSESSMENT OF THE USE OF  
CHLOROFLUOROCARBONS (CFCs) IN THE  
MANUFACTURING OF PS FOAM**

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## SUMMARY AND CONCLUSIONS

At the request of Stybenex, TNO has conducted an investigation into the use of chloro-fluorocarbons (CFCs) in the manufacture of expanded polystyrene foam, which is marketed by members of Stybenex under the designation "PS Foam". The investigation consisted of an analysis of starting materials and end products, as well as an assessment of the production process.

The investigation has shown that the samples of starting material submitted by Stybenex, viz expandable polystyrene, both in its normal version and in a fire-retardant modification, as well as samples of expanded polystyrene end products prepared from starting material, contained no detectable amounts of CFCs.

In the production process, the only agent with which the materials are treated is steam.

The results set forth above warrant the following conclusions:

- the starting material used by members of Stybenex (expandable polystyrene) contains no CFCs
- the end product, expanded polystyrene, contains no CFCs
- in the production of PS foam, no CFCs are added or set free.