

Title (en)

METHOD OF DECOMPOSING ASBESTOS-CONTAINING WASTES

Title (de)

VERFAHREN ZUR ZERSETZUNG VON ASBESTHALTIGEN ABFÄLLEN

Title (fr)

PROCEDE POUR DECOMPOSER DES DECHETS CONTENANT DE L'AMIANTE

Publication

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Application

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- FI 960472 A 19960201

Abstract (en)

[origin: WO9727902A1] The invention relates to a method for neutralizing asbestos waste. According to the method, the waste is contacted with an acid capable of dissolving the asbestos, or with a salt thereof. According to the method, a hydrochloric acid solution is used as the acid, containing a suitable potassium salt in an amount of about 0.5 to 10 % based on the amount of the hydrochloric acid, in particular potassium sulphate, potassium chloride, potassium nitrate, potassium carbonate or potassium phosphate, and possibly a small amount of nitric acid and/or phosphoric acid. In order to enhance the dissolution of the asbestos, the waste is first wetted with water which may contain a surface activity reducing agent. The invention also relates to a method for disposing of the asbestos material in acetylene cylinders, whereby the acetylene cylinder is cut in two and the material is removed by hydrostatic pressure. Next, the wetted material is treated with a hydrochloric acid solution. The invention can also advantageously be applied to demolition waste from buildings.

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