[Form 2 (to be reported to Committee on Countermeasures for Contaminated Water Treatment and to be disclosed to public)

Technology Information	
Area	1 (Select the number from "Areas of Technologies Requested")
Title	Upsalite. A recently synthezised extremely hygroscopic mineral
Submitted by	Dr. Juergen Buchmann

1. Overview of Technologies (features, specification, functions, owners, etc.)

Swedish scientists recently have been successful in synthezising dehydrated Magnesium Sulfate (MgS04/ Upsalite), see *http://en.wikipedia.org/wiki/Upsalite*. This substance being provided with a surface of 800 square metres (8,600 sq ft) per gram is capable of absorbing enormous quantities of water which might be useful to converting liquid nuclear waste into solid.

2. Notes (Please provide following information if possible.)

- Technology readiness level (including cases of application, not limited to nuclear industry, time line for application)

A large-scale technical production of the new material seems to be both technically easy and inexpensive.