



THE DISPOSAL OF USED ION EXCHANGE RESINS

Viky Dicu^{1*}, Carmen Iesan², Mihai Chirica¹, Satish Bapat²

¹*Purolite S.A., Sales Office Bucharest, RO-721121 Bucharest, Romania,*

²*Purolite S.A., RO 505700 Victoria, Brasov, Romania*

Abstract

According to Romanian regulations the used ion exchange resins are classified as hazardous waste, without taking in consideration the application for which they have been used.

Considering this approach of the used ion exchange resins, the purpose of this paper is to clarify aspects such as:

- their treatment to become non-hazardous waste (depending on applications);
- their use in different applications as ion exchange;
- their incorporation in agricultural lands.

The used ion exchangers from water treatment plants (softening and demineralization) have to not be classified as hazardous waste if the pH is in neutral range.

Keywords: ion exchange, disposal, waste, hazardous

* Author to whom all correspondence should be addressed: Mihai Eminescu St. No. 105- 107, 17th AP, Phone: 004021 -2110300, 2110301, 2110265, Fax : +021-2110184, e-mail: purolite.bucharest@pcnet.ro, www.purolite.com