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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵ : A61K 31/66, C07F 9/165		A1	(11) International Publication Number: WO 94/03179
			(43) International Publication Date: 17 February 1994 (17.02.94)
(21) International Application Number: PCT/US93/07222		(74) Agents: POISSANT, Brian, M. et al.; Pennie & Edmonds, 1155 Avenue of the Americas, New York, NY 10036 (US).	
(22) International Filing Date: 30 July 1993 (30.07.93)			
(30) Priority data: 922,929 31 July 1992 (31.07.92) US Not furnished 29 July 1993 (29.07.93) US		(81) Designated States: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
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(54) Title: CRYSTALLINE AMIFOSTINE COMPOSITIONS AND METHODS FOR THE PREPARATION AND USE OF SAME**(57) Abstract**

The present invention relates to a sterile, stable vacuum dried crystalline amifostine composition and, optionally, pharmaceutically acceptable excipient(s). Typically, the crystalline compositions of the present invention exhibit enhanced stability at temperatures ranging from about 4 °C to about ambient temperature for a period of at least 2 years relative to existing solid vacuum dried amorphous amifostine preparations. The reconstituted compositions of the present invention are suitable for administration to humans as a radio- or chemoprotecting agent.

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