US005411751A

United States Patent [19]

Crissinger et al.

[11] Patent Number: 5,411,751

[45] Date of Patent: May 2, 1995

[54] **REDUCING GASTROINTESTINAL IRRITATION IN INFANT NUTRITION**

[75] Inventors: **Karen D. Crissinger; Patrick Tso,** both of Shreveport, La.

[73] Assignee: **Research Corporation Technologies, Inc.,** Tucson, Ariz.

[21] Appl. No.: **187,772**

[22] Filed: **Jan. 26, 1994**

Related U.S. Application Data

[63] Continuation of Ser. No. 867,947, Apr. 13, 1992, abandoned.

[51] **Int. Cl.**[6] **A23L 1/30**

[52] **U.S. Cl.** **426/2;** 426/72; 426/74; 426/658; 426/801

[58] **Field of Search** 426/2, 72, 74, 623, 426/658, 801; 514/77, 78

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,298,601	11/1981	Howard	426/72 X
4,614,663	9/1986	Rule	426/601
4,670,285	6/1987	Clandinin et al.	426/602
4,753,926	6/1988	Lucas et al.	514/2
4,938,984	7/1990	Tomarelli	426/602
4,950,656	8/1990	Lichtenberger	514/78

FOREIGN PATENT DOCUMENTS

0115419	8/1984	European Pat. Off. .
0195570	8/1986	European Pat. Off. .
0311091	4/1989	European Pat. Off. .
0391218	10/1990	European Pat. Off. .
0440309	8/1991	European Pat. Off. .
2574089	6/1986	France .
1446431	4/1975	United Kingdom .
1604554	5/1980	United Kingdom .
2033745	5/1980	United Kingdom .

OTHER PUBLICATIONS

Hawley The Condensed Chemical Dictionary Van Nostrand Reinhoild Co 10th edition (1982) pp. 441, 611 & 970.

Primary Examiner—Joseph Golian

Attorney, Agent, or Firm—Scully, Scott, Murphy & Presser

[57] **ABSTRACT**

Food products for nutrition of infants which contain no more than subirritant amounts of free long-chain (C_{16}–C_{22}) fatty acids and triglycerides thereof are disclosed. Providing esters, such as ethyl esters, of such fatty acids in infant food products essentially eliminates the tendency of the fatty acid to damage the infant intestinal epithelium, but permits absorption and processing of the fatty acid moiety.

14 Claims, No Drawings