

OFFICE OF THE TEXAS STATE CHEMIST

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FEED INDUSTRY MEMORANDUM NO. 3-19

Acrylamide-Acrylic Acid Resins Used in Commercial Animal Feeds

OBJECTIVE:

This policy is written to clarify the acceptable prescribed conditions for the safe use of acrylamide-acrylic acid resin (hydrolyzed polyacrylamide) in commercial animal feeds.

BACKGROUND:

Texas Commercial Feed Rules, Chapter 61, requires processing aids for a commercial feed be approved.

POLICY:

Processing aids for a commercial feed manufactured or distributed in Texas must be approved and shall be the official term for the ingredient or grouping of ingredients adopted by the Association of American Feed Control Officials in its official publication, adopted by reference in §61.1 of the Texas Commercial Feed Rules, relating to definitions; Generally Recognized as Safe (GRAS) for its intended use and inclusion rate; the subject of an approved food additive petition; the common or usual name for the ingredient; or a name approved by the Service.

Acrylamide-acrylic acid resin (hydrolyzed polyacrylamide) is approved for use in commercial animal feeds through an approved food additive petition only for the purposes described below and may be safely used in accordance with the following prescribed conditions.

CRITERIA:

- (a) The additive is produced by polymerization of acrylamide with partial hydrolysis, or by copolymerization of acrylamide and acrylic acid with the greater part of the polymer being composed of acrylamide units.
- (b) The additive meets the following specifications:
 - (1) A minimum molecular weight of 3 million.
 - (2) Viscosity range: 3,000 to 6,000 centipoises at 77 °F in a 1 percent aqueous solution as determined by LVF Brookfield Viscometer or equivalent using a number 6 spindle at 20 r.p.m.
 - (3) Residual acrylamide: Not more than 0.05 percent.
- (c) It is used as a thickener and suspending agent in non-medicated aqueous suspensions intended for addition to animal feeds.



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