



which arise from cooking the food in the wide variety of ingredients used.

Are additives dangerous to pets? No. As mentioned previously, like with human foods, the use of additives in pet food is strictly regulated by the EU. The EU authorises additives on the grounds of safety, technical need and efficacy. The authorisation process is rigorous and food/pet food additives are regularly reviewed to ensure safety.

Are additives in pet food linked to behavioural problems? No. There is no proven scientific evidence currently available to suggest a link between behavioural problems in pets and additives in pet food (Case 2014*). The most common causes of behavioural problems in pets include fear, inadequate early socialisation and training, and poor behavioural/emotional husbandry. Professor Peter Neville (founding partner of the Centre of Applied Pet Ethology) stated that in over 25 years of veterinary referral behaviour practice he has never seen a single case of a behaviour problem in dogs that could be directly linked to additives in pet food or that could be verified in any form of physiological test.

Where can I find out more information on additives in a specific product? Any pet food manufacturer can provide further information on the additives in their products and contact information is on the pet food packaging. Information on all permitted additives used in animal nutrition including pet food is available on the Europa Website and in the 'register of feed additives' at www.europa.eu 



ADDITIVES IN PET FOOD

PFMA's **Michael Bellingham** shares the facts on additives

Additives are used in both human and pet food to help ensure quality, safety, texture, consistency, appearance, odour or taste. Some additives are derived from naturally occurring materials (usually plants) and others are manufactured substances. Additives can be perceived in a negative light so in this article Michael Bellingham, PFMA Chief Executive is on hand to dispel myths, talk about the role of additives in pet food and the strict legislation in this area.

THE USE OF ADDITIVES IN PET FOOD IS STRICTLY REGULATED

The pet food industry operates to stringent standards and complies with more than 50 pieces of legislation to produce pet foods of the highest quality and safety. As part of this, all prepared pet foods manufactured by members of the Pet Food Manufacturers' Association adhere strictly to the Animal Feed Regulations 2015.

These regulations cover the use and labelling of additives in pet food and enforce EU legislation.

The EU authorises additives on the grounds of safety, technical need and efficacy. The authorisation process is rigorous and additives are regularly reviewed. As part of this process, if safety requirements are not met the additives are not approved for use regardless of how technologically useful the particular additive might be.

THE ROLE OF ADDITIVES

Food safety and longevity: Preservatives and antioxidants are two specific categories of additives that are very important for maintaining food safety as well as extending the shelf life of a product. Spoiled foods, if consumed, carry the risk of food poisoning and both preservatives and antioxidants help prevent spoilage from bacterial contamination and stop fats from going rancid.

Benefits of antioxidants: The use of antioxidants goes beyond maintaining food safety and shelf life. Over the years research

has emerged highlighting the benefits of antioxidants. Some manufacturers may add nutritional antioxidants e.g. vitamins C and E to pet foods to help promote good health and combat free radical damage to the body.

For nutritional benefit: As in human food, additives may be used, for example, to protect the nutritional values and goodness of a product or enhance the nutritional profile of a product so that it can deliver complete nutrition (e.g. the addition of vitamins, minerals, amino acids). Some nutrients are classified as additives and may be declared on packaging and under their common or technical names e.g. Vitamin C is known as L-ascorbic acid. The use of such additives enables pet food manufacturers to produce products that are nutritionally complete and which meet the nutritional requirements of the pet.

Colours: Colours are also sometimes used in pet foods. Generally they are added to redress the natural variations in colour