

From: Frits & Patsy Harmsen [harmsefnp@clearmail.com.au]
Sent: Tuesday, 26 April 2011 12:16 AM
To: submissions
Subject: FSANZ Application A1039

FSANZ Application A1039

1. Are you aware of any evidence that consumers believe that low THC hemp foods have psychoactive effects?

NO. There is currently world-wide consumption of hempseed food, hempseed oil and other hempseed products by people aware of its exceptional nutritional value. The only country we know of in the world where it is not yet legal to recognise hemp seed products as a food is Australia. This is ridiculous because an exception is made for its cosmetic use. The skin is the body's largest organ and anything beneficial or dangerous would be imbibed through the skin.

The main selling point for hemp seed foods around the world is the uniquely nutritionally dense profile present in the hemp seed. The hemp seed provides a balanced protein and a range of vitamins and minerals in high concentrations. After flax, hemp is the richest plant source of omega 3. However, only hemp has the ideal ratio of omega 3 to Omega 6 and some Omega 9. Deficiency of Omega 3 has been linked to poor mental development and behavioural problems. Government reports indicate that 90% of Australian schoolchildren do not receive an ideal quantity of omega 3.

More recently overfishing has led to diminishing supplies of the marine sources of Omega 3. The best way to replace these could come from the flax and hemp seeds and seed-oil with their naturally occurring Omega 3 content.

2. Are you aware of any evidence that representations on low THC food (including labelling and advertising) mislead consumers by leading them to believe that low THC hemp foods have psychoactive effects when consumed?

No. Our examination of the packaging of any of the hemp foods available overseas reveals no information likely to indicate psychoactive effects. Perhaps the depiction of the leaf and flower of the plant could be the only thing construed in this way, because of these being the main parts of the drug plant having psychoactive properties.

3. Can you provide any evidence in addition to that presented in this consultation paper whether or not the consumption of low THC foods can return a positive test for a THC drug test?

The analysis presented in the paper covers the topic well and reasonably establishes that at usual levels of consumption the issue of false positive testing does not occur. Although formal studies are lacking, around the world many elite athletes consume hemp health foods, often in generous quantities, to assist in the management of their gruelling physical schedules. As a group they are subject to close chemical monitoring. No incidence of false positive testing has arisen as far as can be ascertained.

4. Can you provide information on THC testing in Australia and NZ, particularly with regard to regulatory limits of THC that may be set?

Yes. In Tasmania where industrial hemp-growing was first trialled by The Tasmanian Hemp Company in 1990, we have kept records of the Government forensic and other THC testing for our fibre crops and seed crops as well as for hempseed oil first produced in Australia by us in 1996. Because the oil was only allowed for cosmetic use, it wasn't deemed necessary by the authorities to test humans for THC levels. Further this was only a trial. We were allowed a maximum of 0.035 ppm for the leaf material and 0.005 ppm for the oil. Our test results were beneath these figures.

5. Can you provide information to indicate whether there will be an impact on the cost of testing for THC in humans that could arise from an approval of hemp foods?

This should not be of concern because no false positives are likely to be encountered.

In the USA, where mandatory drug testing is much more widespread than in Australia, this has not surfaced as an issue. Also, amongst the elite athletes worldwide who have turned to hemp foods to assist in maintaining optimal nutrition, no instances of false positive testing has yet been reported.

6. Do you agree that there are adequate controls currently in place, or that would be achieved by imposing maximum limits for THC, to mitigate any risk of high THC Cannabis varieties entering the food supply?

There is **NO** risk of high THC cannabis entering the food supply. Hemp food is exclusively derived from hemp seed and hemp seed oil which are produced from industrial hemp crops which are subject to regulatory testing to ensure low levels of THC. The majority of high THC cannabis is now grown by vegetative propagation from females of known potency and growth characteristics. There is an international market in high THC cannabis seeds, produced by specialist breeders principally in Holland and Canada. These seeds are bought by prospective growers who use them to establish their stock female plants. Typically, the breeders sell the seeds in packets of ten with prices ranging from \$20 to \$100, although exceptional varieties can cost even more. It is inconceivable that these seeds would be used as food due to their scarcity and expense. Additionally, even in the case of large scale outdoor drug plantations only seedless plants are grown, because the male plants are removed to prevent pollination and seed formation. Additionally, even if the seeds of a high THC producing plant were to be used as food, those seeds have no THC themselves, only the potential to produce THC in the flower of the mature plant.

7. Do you consider that trade practices legislation in Australia and New Zealand is sufficient to mitigate the potential risk that representations (including labelling and advertising) of hemp foods could suggest psychoactive properties relating to consumption of those foods? If not,

what labelling and representations of hemp foods should be considered?

The advertising standards in Australia are rather stringent and quite adequate to prevent any false or misleading claims being made. Those interested in marketing hemp seed products intend to use the ample nutritional benefits as the selling point. However, **allowing only depiction of the hemp seed** and no depiction of the leaf and flower-head (the drug parts of the high-THC plant), should be considered.

8. What is the potential opportunity costs for current producers of hemp crops if hemp foods continue to be prohibited?

An area as small as 100 hectares could form the basis of a hemp seed industry and provide commercial justification for the more modest costs of the processing machinery needed to convert the seed into a saleable commodity. Thus, the hemp seed industry could provide the core commercial base for establishing a hemp industry in Australia and then from there expand to fibre scale plantations. In that regard the legalisation of hemp as a food would facilitate the development of the broader hemp industries.

9. What are the potential benefits to food manufacturers if hemp foods were approved for use?

Amending the current inappropriate restrictions on the food uses of hemp seed in Australia would expand the range of products able to be manufactured. When added to existing foods such as soy milk in place of canola oil, hemp seed would add considerably to the nutritional benefit of the product. An amendment to hemp food legislation would also open the way for production of a range of new foods. For those suffering allergies to soy or dairy products this would provide a valuable alternative source of these types of foods. Manufacturers could use the hemp seed to produce concentrated health bars which would find a ready use in a range of markets from school lunches, hiking and camping food through to emergency food provisions as part of a natural disaster relief effort. Using Australia's environmental credentials and the excellent environmental credentials of hemp would open a potentially very large export market.

10. Are there likely to be any additional costs for food manufacturers wishing to supply hemp foods?

First, we'd like to point out that our company, The Tasmanian Hemp Company, imported a seed-oil expeller from Germany in anticipation of Australia allowing hempseed and hempseed oil for food production in Australia. A small hemp-seed oil industry has been held up at cost to Tasmania, and its first licensed hemp growers and producers of hemp oil in Australia.

Hemp seed can be produced economically, especially when economies of scale and dual fibre/seed plantations are operating. The seed requires only minimal processing before being used in most food preparation. It is stable and can be kept for months without special storage needs and in a freezer for longer periods. Over many years of food use overseas no significant problem with allergies have arisen, so existing food processing machinery can be used with no expensive decontamination procedures. Therefore, no additional costs would be anticipated.

11. Would the approval of low THC hemp foods increase the cost of food enforcement beyond what would be expected of the approval of any other substance added to food, or other food regulatory change?

No additional costs could be reasonably anticipated. Hemp seed, especially hulled hemp seed contains negligible quantities of THC. Seed cleaned for oil production likewise has negligible THC. Therefore, any food manufactured from these will also be virtually free of THC, making product testing unnecessary. If testing is considered necessary it would only be necessary to batch test at the first stage of production i.e. the seed producer, with all downstream producers covered by the certainty that their products would be compliant.

12. What other legislation would affect or be affected by approval of hemp foods?

There need be minimal changes to existing legislation. Australia is currently the only country on Earth to restrict the food uses of hemp and no legislative or enforcement issues, to my knowledge, have arisen in other countries. Although locally produced hemp foods are preferred minor modifications to the Customs regulations would need to be made to facilitate any

import of food grade hemp seeds. The changes would be of a similar nature to the industrial hemp laws, where exemptions to existing restrictions were introduced without difficulty or problems.

13. Would the approval of hemp food have an impact on hemp regulations in Australia and New Zealand? Would industrial hemp destined for use in food require additional controls to those already specified in industrial hemp regulations?

Hemp seed is currently a legal item of commerce in Australia, currently being used in the manufacture of cosmetics and other topical products, as well as a pet food supplement. No additional controls could conceivably be required.

14. Would food manufacturers be required to be licensed under existing hemp regulations?

As stated above the current situation in Australia is that any person can receive and process seed and fibre without restriction providing it has been produced by a licensed grower. There is no conceivable need to add additional regulation to a system that is currently working adequately.

15. Would additional costs be incurred by government agencies responsible for granting licenses for the cultivation of hemp as a result of approval of hemp foods?

With the expansion of the current hemp industry by the addition of food production there would be an increase in the number of farmers receiving licenses. However, no additional costs would be incurred because the system as it is currently operates is based on cost recovery, by fees paid.

16. Can you identify risk management options that have not been considered in the impact analysis?

There is no actual risk associated with changing the regulation so no risk management options need be considered. Joining the world community and legalising hemp foods for consumption in

Australia and New Zealand poses no risk, but a win-win scenario for farmers, producers and consumers.

17. Can you identify any other costs and benefits for any of the risk management options considered in this paper?

Any costs associated with adding hemp food to the approved schedule would be nil or minimal. Risks are non-existent whilst the benefits to farmers, processors and consumers would be great.

18. Do you have a view about the appropriate preferred regulatory options regarding the approval of hemp foods, based on benefits and costs?

Our preferred regulatory option is that of minimal intervention, leading to a rapid normalisation of the hemp food industry. The stated aim of the food regulations is to protect the health and well-being of the Australian population. This is best done by expediting the introduction of hemp foods, whose ample nutritional profile will greatly benefit the population.

Name: The Tasmanian Hemp Company
430 Tinderbox Road West, Tinderbox Tasmania 7054

Postal address: PO Box 102, Blackmans Bay, Tasmania 7052

We also submitted an application in 1999 to ANZFA on Application A360.