

## ACRYLAMIDE - EU Summary of Activities

## STUDY AREA 8 - EPIDEMIOLOGY

NEW/UPDATE since January 2005

Entry No.	STUDY TITLE	SOURCE  (Member State/ Organisation)	STATUS  C (completed) O (ongoing) P (proposed)	COMPLETION DATE  (anticipated date if not yet completed)	SUMMARY OF AIMS OF STUDY  Max 50 words	SUMMARY OF MAIN CONCLUSIONS  Max 50 words	COMMENTS	REFERENCES/ INTERNET LINKS	CONTACTS
8.1	Consumption habits of young adults with emphasis on food groups known to contain high amounts of acrylamide.	Germany / Federal Institute for Risk Assessment	C	June 2003	In a study BfR assessed how much acrylamide is taken in by Berlin pupils in 10 <sup>th</sup> grade at general secondary schools from foods with high acrylamide content. The aim of the study was to get consumption data to estimate the level of exposure of consumers to acrylamide in foods	The average acrylamide intake of this age group is 69 µg/day or 1.1 µg per kg bodyweight daily in respect of consumption of all the product groups considered. If the average is calculated for all Berlin pupils in 10 <sup>th</sup> grade, this leads to a mean intake of 57 µg/day or of 0.9 µg daily per kg bodyweight.	If the acrylamide exposure of young people is higher than the overall population estimates, special measures have to be considered, in addition to the ongoing minimizing strategy in Germany.	Federal Institute for Risk Assessment (BfR) : Assessment of acrylamide intake from foods containing high acrylamide levels in Germany (English abbreviation of a BfR study of 2003-07-15) <a href="http://www.bfr.bund.de/cm/245/assessment_of_acrylamide_intake_from_foods_containing_high_acrylamide_levels_in_germany.pdf">http://www.bfr.bund.de/cm/245/assessment_of_acrylamide_intake_from_foods_containing_high_acrylamide_levels_in_germany.pdf</a>	<a href="mailto:c.sommerfeld@bfr.bund.de">c.sommerfeld@bfr.bund.de</a>

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8.2	Exposure to acrylamide and the occurrence of chronic diseases.	The Netherlands	O	A feasibility study will be finished in December 2002. More research may be started in 2003.	An explorative study with respect to the relation of French fries and potato chips with the risk of four major cancers, cardiovascular diseases and all causes mortality will be performed. Several Dutch cohort studies will be used. If considered useful further studies will be executed in 2003, based on a more accurate exposure to acrylamide by diet and/or occupation.	Consumption of French fries or crisps was not associated with increased risks for breast, lung and pancreatic cancer, only with the risk of endometrial cancer a nonstatistically significant positive association was observed. Based on the results of a pilot study, there was no indication that intake of acrylamide (-containing foods) increased the risk of all-cause mortality. The results with regard to coronary heart diseases must be interpreted with caution, as the number of cases was small, especially for women, and no adjustment for trans fatty acid intake could be made. Some of the findings are rather unexpected and need further investigation.	Dietary exposures of cohort members to acrylamide are calculated and further associations will be studied.		Dr. E. Konings. Dutch Food Authority, Inspectorate for Health Protection, Den Bosch, The Netherlands. E-mail: Erik.Konings@kvw.nl, Phone: +31402911500, Fax: +31402911600
8.3	Biobank study	The HEATOX project	O	October 2006	Adducts in blood samples from control and cancer patients (biobank) will be analysed and compared to data from questionnaires.		STREP under FP6 supported by EC, DGResearch, Priority on Food Quality and Safety	<a href="http://www.heatox.com">www.heatox.com</a>	<a href="http://www.heatox.org">www.heatox.org</a>