BfR-Symposium "First International Conference on Tattoo Safety" June 6-7, 2013 Berlin

Stakeholder Position

Gerd Mildau

Chemical and Veterinary Inspection Office Karlsruhe, Germany (CVUA Karlsruhe)

CVUA Karlsruhe, Germany

- Official Lab of the Federal State Baden-Wurttemberg (southwestern part of Germany, 10 million inhabitants)
- Central Lab in terms of Cosmetics & Tattoo/PMU-Inks, 1500 risk-orientated samples per year
- Physico-chemical analysis of Tattoo/PMU since 1999
- Consulting competent authorities at inspections of Tattoo/PMUparlors or Tattoo-Conventions
- Cooperation with small tattoo-ink-manufacturers, lectures at tattoo-artist-trainings
- Engagement in different national/international WG (BfR, European Commission, Council of Europe, CEN/ISO)
- Regular Risk Campaign in schools, radio & tv-interviews



Headlines as reactions to our results

BILD 2001, PMU "The ugly of the beauty"



Stuttgarter Nachrichten 2011, Tattoo: "Where Ferrari-Red attacks the skin"

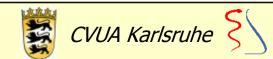
Stuttgarter Nachrichten - Stadtausgabe / 19.02.2011 /

Wo das Ferrari-Rot die Haut angreift

Land will strengere Regeln für Tätowierfarben erreichen

Die einen sehen es als Körper-

ne, Nitrosamine und Phenol. "Diese Ergebnisse zeigen, dass gesetzlich dringend nachgebessert werden muss, re entwickeln. Als besonders heikel gelten schwarze Farben, die meist aus Ruß bestehen - so wie man ihn von



Newest inquiries in Germany

- 2013: market research institute GfK Nürnberg made a representative inquiry for the health magazin "Apotheken-Umschau" (1925 women, men, 14 - ? years old)
- 60 percent of 14-19 years old young persons see tattoos as attractive – "tattoo is in"
- 78,6 percent require strict legislation and surveillance to minimize health risks
- 57,1 % believe that tattooing is related to absolutely avoidable healthy risks

BUT...

NOT ENOUGH HAPPENS UP TO NOW

to really protect consumer (and serious tattoo/PMU-manufacturer and serious tattoo/PMU-artist) in comparison to e.g. Cosmetics legislation (EU)

WHY?

Where is the political responsibility in the EU? Some risks are well-known, there are many data gaps. There is no EU-mandate for research and no Regulation-draft up to now!!!



Our newest Results – chilling!

Tattoo- Campaign 2012:
 30 % non-compliant
 5 serious risk cases (RAPEX)

- Nickel 12 mg/kg & 45 mg/kg
- PAH in black tattoos
 - Benzo-a-pyrene (BaP) 1150 μg/kg (Resolution EC: 5 μg/kg)

BaP

186 μg/kg

BaP

79 μg/kg

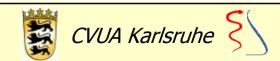
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Legislative Initiative of Baden Württemberg, federal state of German

- 2012 Federal Council of Germany, Berlin: important statement:
 - German government should improve the existing German Tattoo Regulation 2008
 - or better: European Tattoo Regulation should be created
- Basis of the future legislation:
 - Resolution 2008 of the Council of Europe on requirements and criteria for the safety of tattoos and PMU
 - German Tattoo Regulation 2008
- Plus important amendments



My proposed Pillars of a future European Tattoo-Regulation 1

- Positive list approach for pigments
 - "Gold standards" based on a risk-assessment strategy (data gap -> worst case scenario), i.e. well-defined criteria for purity (e.g.>98%), stability, toxicological endpoint-assessment by weight of evidence approach
- Positive list approach for auxiliary ingredients (solvents, stabilisers, pH-regulators, emollients etc)
- No preservatives, but sterile products (absence of viable organisms including viruses)
 Only solution: single use packages (e.g. 5ml), irradiation process like food irradiation (electron, gamma)
 - low cost batch production is surely possible!!!!



Proposed Pillars of a future European Tattoo-Regulation 2

- Negative list approach for hazardous substances including impurities (raw material) or traces (finished product)
 - Should be based on opinions of the SCCS
 - Shall constitute **limit values for traces** ("weight of evidence"-approach in case of data gap)
 - Nickel, other relevant metals (chromium VI, Cadmium etc.)
 - PAH, which are relevant (EFSA, EPA...)
 - PAA, definition of cleavage conditions
 - Nitrosamines, relevant (NDELA...)
 - Phthalates (CMR)
 - Other CMR
 - Fragrances (should be banned generally, Traces: relevant)



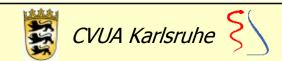
Proposed Pillars of a future European Tattoo-Regulation 3

- Application of harmonised methods for reliable and reproducible analysis of traces -> development of CEN/ISO-Standards if necessary (PAH, Nickel, Chromium VI, Arylamines etc.)
- Safety assessment before marketing of products analog Cosmetics Product Regulation including nanomaterials (e.g. Carbon Black – Fullerenes?)
- EU-Notification analog CPNP (Cosmetic Product Notification Portal) at European Commissiondatabase, including Nanomaterials
- Labelling criteria see Resolution 2008 EC



Proposed Pillars of a future European Tattoo-Regulation 4

- Good Manufacturing Practice for tattoo/PMU production
- Youth protection analog oxidative hair dyeregulation in Europe: not allowed below 16 years
- Information of Consumer
 - Published list of withdrawn or recalled products,
 see BAG Switzerland (RAPEX isn't consumer-friendly)
 - Certificate from parlor in terms of applied tattoo/PMU (pigments)
 - Campaigns: Not tv/newspaper but youtube, blocks, apps
- Qualification standards for tattoo/PMU artist



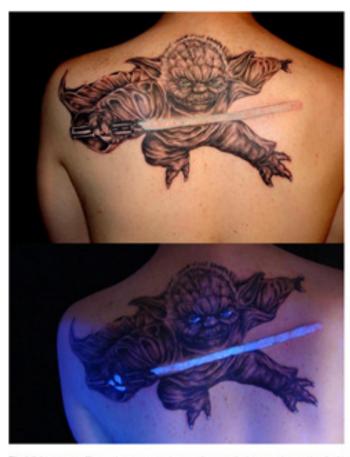
Important step: Sufficient Surveillance

- more risk-orientated
 - Close Cooperation with customs (e.g. airports)
 - Internet-products!
 - E.g. Glow in the dark & black light tattoo inks (stilbenes?)
- Cheap products

(see e.g. ebay 2013-06-03 german website

- 2076 results for tattoo guns and supplies
- 537 results for tattoo inks (e.g. from Hong Kong)
- Regular exchange of information of competent authorities in the EU and worldwide ("tattoovigilance")

My impatience grows more and more!



Black light tattoos offer a unique opportunity to make your design more interactive. In this case, Kenneth Bryan of Intimate Body Art Studios made Yoda poised for battle in regular light, but with a little UV, his lightsaber is ready to strike down the Dark Side.

http://mentalfloss.com/article/50096/18-stunning-black-light-responsive-tattoos

