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# TDI-PROJECT: A HARMONIZED CATEGORY-SYSTEM FOR PRODUCTS IN POISONS CENTRES (PC)



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## OBJECTIVE

Grouping systems are important tools for retrieval and processing of huge data volumes in PC. Since 1999, German PC's and the Federal Institute for Risk Assessment (BfR, formerly BgVV) have been working on the Toxicological Documentation and Information Network (TDI-Project, funded and formally managed by the German Federal Ministry of Environment, Natural Protection and Nuclear Safety) in order to establish a standardized procedure for product data transfer \*) from industry to PC/BfR. The creation of a uniform category-system for products and biological substances is one of the main tasks of this project.

## RESULTS

1. Four important functions of a category-system were identified (see Fig. 2):

- a) Grouping of new products within the case documentation.
- b) Epidemiological evaluations with regards to product groups for reports.
- c) Group specific analysis of cases of poisoning for the development of monographs.
- d) Retrieval of toxicological information for one product group, if specific product information is missing.

2. The category-system is hierarchically structured in nine levels (L1 – L9) and connected with the main index of the product names (see Fig. 3) with unique numbers (CAT\_ID).

The hierarchy of the categories is determined by a code with optionally 26 letters or 99 numbers (similar to ATC-Code).

3. The classification of the noxious substances is made according to its purpose (products: cosmetics, cleaner, ..., Drugs [ATC-Code]<sup>(1)</sup>, ...), taxonomical (natural environment: plants [Zander]<sup>(2)</sup>, fungi, animals), its source, or its properties (civilization load, waste) (see Fig. 1).

Figure 1: Sample fragments of the category-system

CAT_ID	L1	L2	L3	L4	L5	L6	L7	L8	L9	CATEGORY-NAME
1000001	P									Products
1000002	P	E								Everyday essentials
1000030	P	E	C							Douches
1000032	P	E	C	S						Skin cosmetics
1000033	P	E	C	S	01					Skin detergents / skin care products incl. bath additives
1000034	P	E	C	S	01	S				Soap - cosmetic
1000037	P	E	C	S	01	B				Bath products
1000038	P	E	C	S	01	B				Shampoo
1000078	P	E	C	S	01	B				Hair cosmetics
1000079	P	E	C	S	01	B				Hair cleaning and care
1000080	P	E	C	S	01	B				Hair shampoo
1000082	P	E	C	S	01	B				Hair conditioner
1000448	P									Chemical products for physicochemical usage
1000450	P	C								Cleaner, polish and care-products
1000451	P	C	C							Domestic Cleaner
1000452	P	C	C	D						General purpose cleaner
1000453	P	C	C	D	01					Floor cleaner
1000454	P	C	C	D	01	B				Floor cleaner
1000632	P	C	C	D						Painting material
1000634	P	C	C	D						Undercoats
1000073	P	P								Pesticide
1000073	P	P								Protection of plant
1000086	P	P	A							Acaricide
1000078	P	P	A							Insecticide
1000080	P	P	A							Nematocide
1000209	P	P	W							Protection of wood
1000208	P	F								Food and Beverage
1000207	P	F								Food
1000002	P									Pharmaceutical and Medicine Products
1000003	P	D								Drugs (human) [ATC-Code]
1001306	P	D	A							ALIMENTARY TRACT AND METABOLISM
1001966	P	D	B							BLOOD AND BLOOD FORMING ORGANS
1002200	P	D	C							CARDIOVASCULAR SYSTEM
1002201	P	D	C	01						Cardiac therapy
1002202	P	D	C	01	A					CARDIOGLYCOIDES
1002203	P	D	C	01	A	A				Digitalis glycosides
1002204	P	D	C	01	A	A	01			Acetylstrophan
1002205	P	D	C	01	A	A	02			Acetylstrophan
1002206	P	D	C	01	A	A				Acetylstrophan
1002851	P	D	D							DERMATOLOGICALS
1003370	P	D	H							GENITAL URINARY SYSTEM AND SEX HORMONES
1003385	P	D	H							SYSTEMIC HORMONAL PREPARATIONS, excl. sex hormones
1003870	P	D	J							GENERAL ANTIINFECTIVES FOR SYSTEMIC USE
1004031	P	D	K							ANTINEURASTHENIC AND MUSCULOLATENT AGENTS
1004331	P	D	M							MUSCULO-SKELETAL SYSTEM
1004460	P	D	N							NERVOUS SYSTEM
1005370	P	D	R							ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLANTS
1005335	P	D	R							RESPIRATORY SYSTEM
1005720	P	D	S							SENSORY ORGANS
1006012	P	D	V							Venous
1000004	P	D	V							other Drugs (human)
1000006	P	D	Z							show in Drugs (human)
1000009	P	V								Veterinary medicine [ATCvet]
1000010	P	V								
1007000	N									Natural environment
1007001	N	P								Plants (Zander)
1007002	N	P	A							Plantifloria
1007004	N	P	A							Equisetopsida
1007005	N	P	A	01						Equisetaceae
1007006	N	P	A	01	A					equisetaceae
1007007	N	P	A	01	A	RA				equisetum
1007008	N	P	A	01	A	RA	01			equisetum arvense
1007010	N	P	A	01	A	RA	02			equisetum palustre
1007011	N	P	A	01	A	RA	03			equisetum sylvaticum
1007012	N	P	B							Lycopodiopsida
1007013	N	P	B							Lycopodiaceae
1007014	N	P	B	01						
1007015	N	P	B	01						
1007016	N	P	S							Spermatophyta
1007017	N	P	S							Cycadopsida
1007018	N	P	S	A						Cycadales
1007019	N	P	S	A	01					cycadales
1007020	N	P	S	A	01	A				cycas
1007021	N	P	S	A	01	A	01			cycas revoluta
1007070	N	P	S	B						Gnaphaloideae
1007071	N	P	S	B	01					Gnaphalaceae
1007072	N	P	S	B	01					
1007073	N	P	S	B	01					
1007074	N	P	S	B	01					
1007075	N	P	S	B	01					
1007076	N	P	S	B	01					
1007077	N	P	S	B	01					
1007078	N	P	S	B	01					
1007079	N	P	S	B	01					
1007080	N	P	S	B	01					
1007081	N	P	S	B	01					
1007082	N	P	S	B	01					
1007083	N	P	S	B	01					
1007084	N	P	S	B	01					
1007085	N	P	S	B	01					
1007086	N	P	S	B	01					
1007087	N	P	S	B	01					
1007088	N	P	S	B	01					
1007089	N	P	S	B	01					
1007090	N	P	S	B	01					
1007091	N	P	S	B	01					
1007092	N	P	S	B	01					
1007093	N	P	S	B	01					
1007094	N	P	S	B	01					
1007095	N	P	S	B	01					
1007096	N	P	S	B	01					
1007097	N	P	S	B	01					
1007098	N	P	S	B	01					
1007099	N	P	S	B	01					
1007100	N	P	S	B	01					
1007101	N	P	S	B	01					
1007102	N	P	S	B	01					
1007103	N	P	S	B	01					
1007104	N	P	S	B	01					
1007105	N	P	S	B	01					
1007106	N	P	S	B	01					
1007107	N	P	S	B	01					
1007108	N	P	S	B	01					
1007109	N	P	S	B	01					
1007110	N	P	S	B	01					
1007111	N	P	S	B	01					
1007112	N	P	S	B	01					
1007113	N	P	S	B	01					
1007114	N	P	S	B	01					
1007115	N	P	S	B	01					
1007116	N	P	S	B	01					
1007117	N	P	S	B	01					
1007118	N	P	S	B	01					
1007119	N	P	S	B	01					
1007120	N	P	S	B	01					
1007121	N	P	S	B	01					
1007122	N	P	S	B	01					
1007123	N	P	S	B	01					
1007124	N	P	S	B	01					
1007125	N	P	S	B	01					
1007126	N	P	S	B	01					
1007127	N	P	S	B	01					
1007128	N	P	S	B	01					
1007129	N	P	S	B	01					
1007130	N	P	S	B	01					
1007131	N	P	S	B	01					
1007132	N	P	S	B	01					
1007133	N	P	S	B	01					
1007134	N	P	S	B	01					
1007135	N	P	S	B	01					
1007136	N	P	S	B	01					
1007137	N	P	S	B	01					
1007138	N	P	S	B	01					
1007139	N	P	S	B	01					
1007140	N	P	S	B	01					
1007141	N	P	S	B	01					
1007142	N	P	S	B	01					
1007143	N	P	S	B	01					
1007144	N	P	S	B	01					
1007145	N	P	S	B	01					
1007146	N	P	S	B	01					
1007147	N	P	S	B	01					
1007148	N	P	S	B	01					
1007149	N	P	S	B	01					
1007150	N	P	S	B	01					
1007151	N	P	S	B	01					
1007152	N	P	S	B	01					
1007153	N	P	S	B	01					
1007154	N	P	S	B	01					
1007155	N	P	S	B	01					
1007156	N	P	S	B	01					
1007157	N	P	S	B	01					
1007158	N	P	S	B	01					
1007159	N	P	S	B	01					
1007160	N	P	S	B	01					
1007161	N	P	S	B	01					
1007162	N	P	S	B	01					
1007163	N	P	S	B	01					
1007164	N	P	S	B	01					
1007165	N	P	S	B	01					