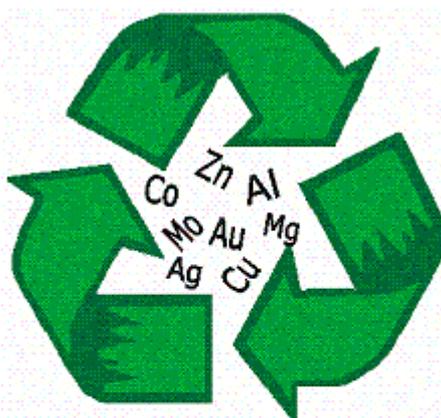**Technical University of Košice**
Faculty of Metallurgy
Centre of Waste Processing

BaterDATA
Manual
(Version 1)
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The database **BaterDATA** is focused on used portable batteries and accumulators available in the market. The main purpose of this database is to provide information about a producer, type, properties and composition (material sheets) of different types of portable batteries and accumulators. The photos of batteries and accumulators included in the database are available, and they appear in top right corner of the searching form after clicking on a record.

Launching the database

We launch the database by doubleclick on the file **BaterDATA.mde**. After launching the database a searching form **frmsearch** is displayed (Fig.1). This form serves to search for records of batteries and accumulators, and material sheets.

*Fig.1 The searching form **frmSearch***

As it is shown in the picture above, the searching form is divided into three basic parts.
The area bounded by red color contains a text box used to search for batteries. We can search for batteries and accumulators according to a producer, shape, type and magnetic properties. The entering of the search parameters is very simple, because except for the text box **Producer,** all other fields are in the form of a list i.e., we do not need to write anything into the field manually, just to choose one of the options from the list which is displayed after clicking on the blue arrow bounded by the green rectangle in the picture. In order to get required records we have to enter proper parameters and click on the button **Hľadaj/Search.** The button **Vynulovať/Clear** serves for deleting the given parameters.

The area on Fig.1 bounded by the blue color serves to search for material sheets. Material sheets can be searched according to a producer or type of batteries and accumulators. In order to display required material sheets we have to enter proper parameters (a producer, type or both) and press the button **Ukáž/Show.** After doing this a new table is displayed. This table contains the list of material sheets which meet the entered parameters (Fig.2). In the case we want to hide this table we press the button **Skryť/Hide**.

The table of material sheets contains:

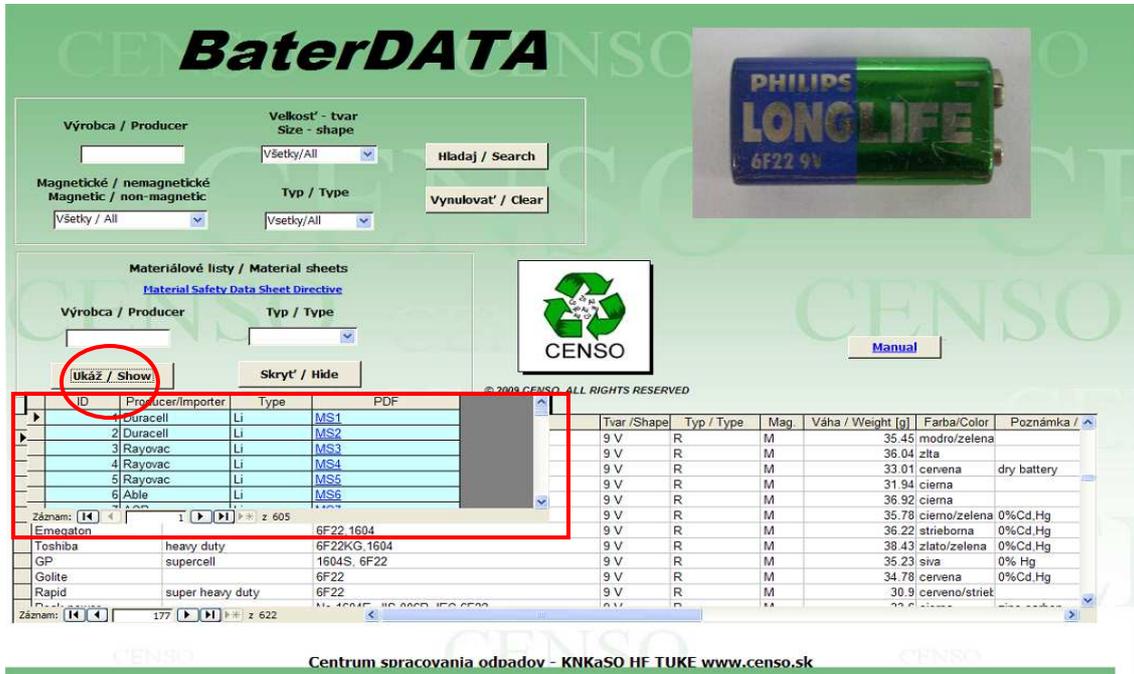|	
ID –	It is inserted automatically by the database itself
Producer/Importer -	Producer's name
Type -	Type of battery/accumulator (Li, Ni-MH, Ni-Cd, LR, R)
PDF -	Hypertext reference on the pdf form of datasheet

Fig.2 The datasheets table

The third area on the Fig.1 bounded by the yellow color consists of the table showing records which meet the parameters entered into the searching form.

Inserting a new record

A new record can be inserted into the database through the table **t_baterky** (fig.3).
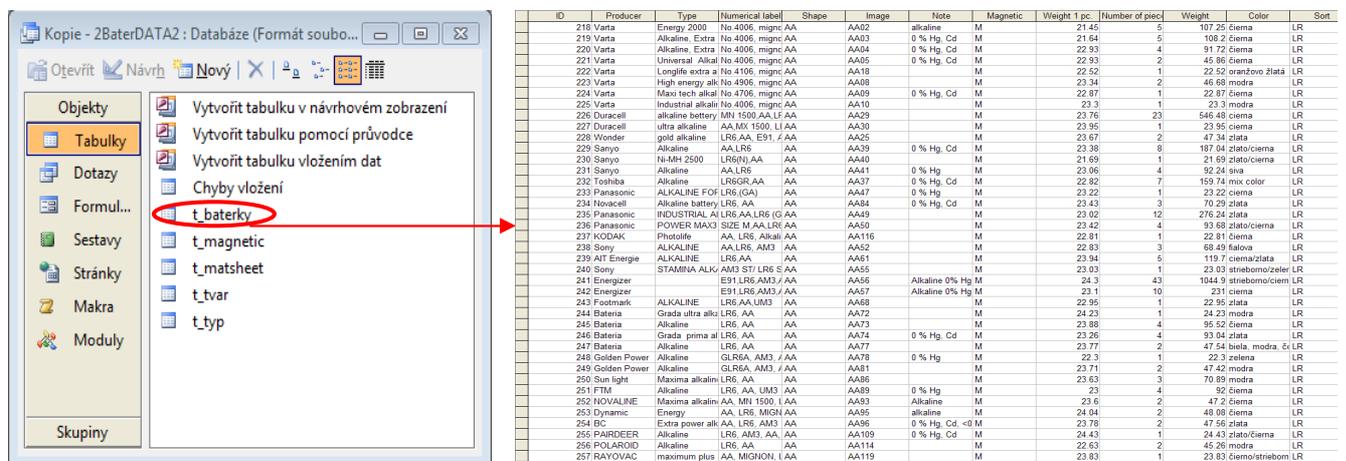
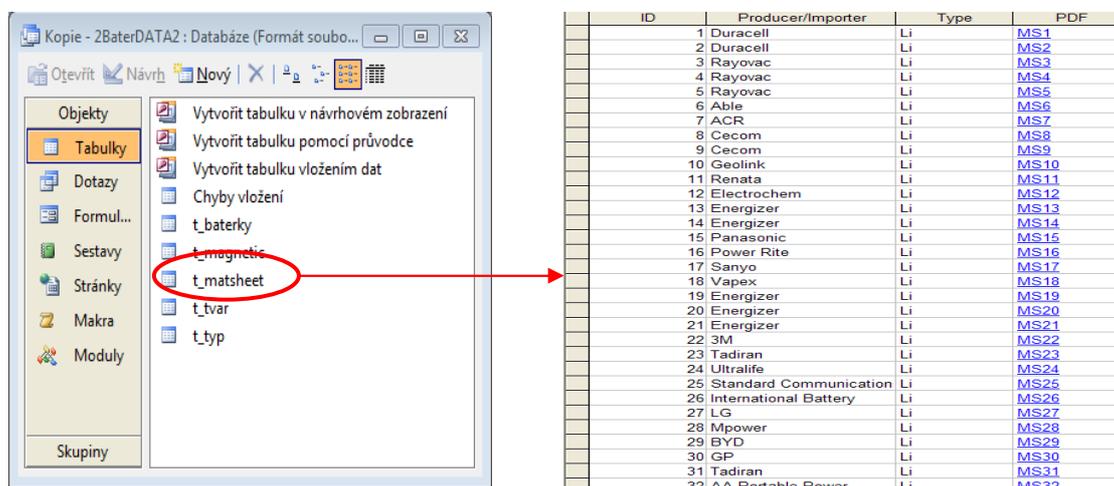

*Fig.3 The table for inserting a new records **t_baterky.***

When we insert a new record into the database we need to enter following data:

ID –	It is inserted automatically by the database itself
Producer -	Producer's name
Type -	Type of the battery/accumulator (e.g. *Superalkaline,...*)
Numerical labeling -	Label of the battery/accumulator shown on the cover (e.g. *LR6 E91 AM3*)
Shape -	Label determining shape of the battery/accumulator (e.g. *AA, AAA, D, C, 9V,...*)
Image -	The number of the battery/accumulator photo (e.g. *AA120, ...*)
Note -	It mostly contains information about heavy metals content (e.g. *0% Hg,Cd* resp.*Ni-MH,...*)
Magnetic -	M = magnetic ; N = non-magnetic
Weight 1 pc. -	Weight of one piece of battery/accumulator
Number of pieces-	Number of collected batteries/accumulators (the same type)
Weight -	Weight of all batteries/accumulators of the same type
Color -	Color of the cover (e.g.. *yellow, black-blue...*)
Sort -	Label determing a type of the battery/accumulator (e.g. *R, LR, Li, Ni-MH, Ni-Cd*)

Inserted data are saved automacically.

Inserting a new datasheet

For inserting a new datasheet into database use the table **t_matsheet** (fig.4)

When we insert a new datasheet into the database we need to enter following data:

ID -	It is inserted automatically by the database itself
Producer/Importer -	Producer's name
Type -	Type of batteries/accumulators (*Li, R, LR, Ni-Cd, Ni-MH*) –in the form of list
PDF -	Hypertext reference on datasheet in pdf form

The inserted data are saved automatically.