



**FIZ CHEMIE BERLIN**

Fachinformationszentrum Chemie GmbH

High-quality databases and specific technical Internet search engines provide high-quality information to fulfill the new REACH EU regulation / FIZ CHEMIE Berlin offers enormous scientific collections of data and facts on chemical substances and reactions, as well as on thermophysical properties of pure substances and mixtures / More than 25 years of electronic preparation of the documented specialist chemistry knowledge / REACH will come into effect on June 1st

## REACH: On the market faster, with technical information from FIZ CHEMIE

Berlin, May 23rd 2007 – The new EU REACH regulation (Registration, Evaluation and Authorization of Chemicals) imposes the responsibility for safety in handling the processed substances and products on companies that bring the chemicals onto the market. REACH reorganizes the registration, evaluation, licensing and restriction of chemical substances and also rescinds the previously valid exemption rules for old substances. With the coming into effect of the regulation on June 1st 2007, manufacturers and importers throughout Europe must provide safety certificates for handling the chemicals which they process and distribute and provide safety recommendations for the entire added value chain, from the raw material, right up to disposal.

Reorganization triggers a huge demand for information. Experts estimate that between 30,000 and 100,000 substances must be classified in detail, in relation to toxicity and production rate. The “first marketers”, as German public authorities refer to the affected companies, are obligated to gather all information for evaluating raw materials and products and to base their handling recommendations and documentation on this data. With this, high-quality technical information sources, such as the thermophysical Infotherm® database, the ChemInform RX reaction database and additional specific technical quality databases from FIZ CHEMIE Berlin can provide valuable assistance. In cooperation with renowned international partners, FIZ CHEMIE Berlin has been selectively documenting specialist technical information from chemistry and its associated fields in databases for more than 25 years. Today, the information service provider has enormous collections containing literature references, as well as data and facts on chemical substances and reactions, available electronically. FIZ CHEMIE Berlin has developed specialized search engines for seeking information on the Internet. During the search, these exclusively access evaluated Internet sources, which results in high-quality answers. The offers of the non-profit institution for business and science are partly free of charge and partly subject to a fee.

### **Infotherm® provides thermophysical parameters on chemical substances**

With Infotherm®, FIZ CHEMIE Berlin offers one of the world's largest databases, with thermophysical characteristics. The high-quality information source contains thermophysical parameters on around 7,400 pure substances and around 29,000 mixtures. These can be linked with up to 150 substance characteristics, for example, with boiling points, PVT properties, phase equilibria, transport or surface properties. For a substance mixture, the components of which are entered as compound names, molecular formulae or CAS numbers, Infotherm® can find characteristics under various conditions within seconds. The results can be displayed as a compromised table or an interactive chart. Infotherm® is offered as a database on the Internet and alternatively, on DVD, for incorporation into you own company network. <http://www.infotherm.de/>

### **ChemInform® calculates alternatives for synthesis**

ChemInform® is the most popular information source from FIZ CHEMIE Berlin. Introduced decades ago, the reporting service on organic and element-organic synthesis now exists in all technically available media



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criptions of syntheses, methods and processes, in a highly compromised form, which are described in approx. 200 international specialist publiformats – from print form, right up to the interactive reaction database. ChemInform® provides brief descations. This data is prepared electronically, using high-performance software, so that information can be accessed in a very targeted manner. In this way, ChemInform® offers, among other things, the simulation of various alternatives for synthesis planning. In relation to fulfilling REACh, these functions can be used, for example, in seeking alternative components for the elimination of toxicological or other critical interim stages in the production chain, which could possibly lead to problems with licensing. <http://www.cheminform.com/>

### **Guides provide a good overview of information sources on toxicology**

Toxicology and ecotoxicology of substances play a significant part in the reorganization of handling chemicals. In order to gain a quick overview of available information, the use of the specialized search engines, ChemGuide and MedPharmGuide, is recommended, which were developed by FIZ CHEMIE Berlin over a period of years and constantly improved. These search engines exclusively access Internet sources during the search, which have previously been examined by specialists, with respect to their relevance, quality and reliability. They not only search the web superficially, but also cover large parts of the so-called “deep” or “hidden web”, which other search engines do not take into account. Extensive information search options are available in the guides. Wildcards and operators from professional research can be used for the search. The search results provide valuable starting material for obtaining high-quality, scientifically determined data and facts on the toxicity of chemical substances – as well as on every other technically relevant question in the REACh environment. <http://www.fiz-chemie.de/guides/>

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### **About FIZ CHEMIE Berlin**

FIZ CHEMIE Berlin, is a state-supported non-profit information agency financed by the Federal Government and the Governments of the German States whose primary task is to provide high-quality information services concerning chemistry, chemical engineering and related fields to science, education and industry. It is certified according to the DIN EN ISO 9001:2000 quality standard. FIZ CHEMIE Berlin maintains close relationships with research and information institutions in Germany and abroad and has marketing agreements with partner organisations worldwide. The Centre is committed to the further development and the linking of national and international chemistry information. FIZ CHEMIE Berlin is a member of the Germany's Gottfried Wilhelm

**Leibniz Science Association (Leibniz-Gemeinschaft).**

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