



REACH – What it means for company practice

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 **BASF**

The Chemical Company



What is REACH about?

REACH stands for **R**egistration, **E**valuation, **A**uthorisation and **R**estriction of **C**hemicals. This new EU Chemicals Regulation is intended to harmonize and simplify the existing chemicals legislation throughout Europe. REACH entered into force June 1, 2007 as the new chemicals law applicable throughout Europe (Regulation (EC) No. 1907/2006).

The most important aims of the new EU chemicals policy are to improve the protection of human health and the environment against the risks associated with substances, while maintaining and improving the competitiveness of the EU chemicals industry.

The purpose of REACH is to abolish the distinction between “new” and “old” substances. Any hazard potential for man and the environment presented by the approximately 4,000 “new” substances has been extensively investigated and is known. For approximately 30,000 of the 100,000 “old” substances, REACH requires the existing gaps in the data to be filled.

The principle underlying REACH is based on the concept of self-responsibility, i.e. the industry itself is in the best

position to ensure that the substances it manufactures and markets in the EU do not adversely affect human health and the environment.

Under the terms of REACH, only chemical substances which are safe to use for man and the environment may be manufactured or imported into the EU or marketed in the form of their derived products (e.g. preparations). This requires the availability of sufficient data sets relating to the substance characteristics (physical and chemical properties, health hazardous properties, environmental behavior) and an evaluation of their uses. Manufacturers and importers are themselves responsible for the correct assessment of the chemical substance.

Under the terms of REACH, no preparations but only the individual substances present in a preparation can be registered. REACH requires all chemical substances manufactured in or imported into the EU in quantities of more than one metric ton per year to be registered with the newly established European Chemicals Agency (ECHA) in Helsinki. The use of substances with particularly hazardous properties is subject to an additional authorisation procedure.

All parties involved in the supply chain are obliged to define their roles in the context of REACH and collect the data necessary for the product and substance assessments. These data must be exchanged along the value-adding chain. The most important medium for onward transmission of information is the well-proven and familiar safety data sheet (SDS) for all hazardous substances. Under REACH, the relevant exposure scenarios (including risk management activities) are also specified in an extended SDS and thereby this information is distributed along the product chain.

**Under REACH, chemicals can only be marketed after their ingredients have been (pre-)registered.
BASF is prepared for REACH!**

BASF

- is aware of the REACH communication obligations within the value-adding chain;
- wants to spare its customers duplication of effort and makes sure all the required information is requested in good time.



How is BASF actively dealing with REACH?

Not everyone involved with chemicals is automatically affected by REACH. The new policy concerns only substances manufactured in or imported into the EU in quantities of more than one metric ton per year. Moreover, certain groups of substances and individual substances are exempt from the registration obligation (e.g. polymers). For other substances, REACH is not applicable because their manufacture and/or use are already covered by other regulations such as the Plant Protection Products Directive, the Pharmaceuticals or the Food- and Feedstuffs Regulations.

- BASF is one of the companies most affected by REACH worldwide.
- As a manufacturer, importer and user of chemicals, BASF must fulfil the requirements imposed by REACH for a very large number of substances. In particular, BASF is required – with support from its customers – to identify the relevant substance and product usages and describe their safe use and risk minimization measures. Conversely, BASF also has to support its suppliers in appropriately assessing these usages within BASF.
- Altogether several thousand BASF substances are subject to registration under REACH.

- BASF intends to pre-register all substances currently manufactured in Europe or imported by BASF into Europe.
- REACH is being implemented within BASF in close cooperation with the BASF operating divisions, the BASF Group companies and various corporate divisions (Procurement Raw Materials and especially the Product Safety Department).

BASF is one of the companies most affected by REACH worldwide and unreservedly supports the goals of REACH in protecting man and the environment!

BASF

- knows that in future only products with ingredients that have been pre-registered by November 2008 and are subsequently registered can continue to be manufactured and marketed in Europe;
- has created organizational and technical structures to assure the global control of BASF activities relating to the implementation of REACH;
- provides additional REACH information in the Internet (see overleaf);
- offers with *Success* a comprehensive service designed to support its customers, suppliers and other interested companies in implementing REACH (see fold-out card on the last page of this brochure).



What is pre-registration?

Although REACH came into force on June 1, 2007, the previous regulations for the registration of chemicals still remain applicable for another twelve months.

The pre-registration period for “phase-in substances” (“old” substances) begins on June 1, 2008. Essentially, this means that “old” substances which continue to be produced or imported now have to be notified (pre-registered) to the Chemicals Agency ECHA within six months. Since non pre-registered phase-in substances are not allowed to be manufactured or imported and marketed after expiry of the pre-registration period up to their registration, it is important for BASF to pre-register all substances manufactured in Europe or imported by BASF into Europe.

Depending on the production volumes and substance properties, the substances must be registered by certain deadlines (see page 6 for REACH timelines).

Every legal entity, i.e. every BASF Group company affected, will make sure that its own portfolio of substances is pre-registered.

Pre-registration is necessary to ensure the continuity of all product deliveries.

BASF

- knows that “old” substances which have not been pre-registered can neither be manufactured, nor imported, nor marketed after November 30, 2008 until their registration;
- has earmarked all the substances in its portfolio for pre-registration.



What are the registration requirements?

Under REACH, all substances produced in or imported into the EU in quantities of one metric ton per year or more have to be registered with the European Chemicals Agency. If a substance is not registered after the expiry of possible transitional periods, it may neither be manufactured in nor imported into the EU nor marketed in the form of products.

On registration, both a technical dossier and information demonstrating the safe use of a substance have to be submitted. The data requirements for the technical dossier depend on the annual production volumes. They may range from physical and chemical data to comprehensive toxicological and ecotoxicological studies.

From an annual production level of ten metric tons per year a Chemical Safety Report with additional information on effects and environmental behavior has to be submitted for these substances. This report explains the potential risks

of the substance concerned and what actions are to be taken to contain them. A list of identified usages must be included in the substance safety report.

If several companies will register the same substance, there is an obligation to share the available data on a cost sharing basis.

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Depending on the quantities manufactured and imported, increasingly large data packages have to be submitted to the Chemicals Agency ECHA.

BASF

- checks who else will be registering the same substance;
- intends to start compiling registration documents for all relevant substances in good time.



Innovations under REACH?

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REACH replaces the former regulations for the notification of new substances.

BASF

- **welcomes the more generous rules for research and development products and will use them for the benefit of its customers.**

We at BASF develop innovative solutions in cooperation with our customers. This will be easier under the REACH legislation from June 1, 2008 onwards. In contrast to the existing rules, it will then be possible to handle substances not presenting specific hazards in quantities of up to one metric ton per year without informing the authorities. The use of larger quantities will be possible after informing the authority with a time limit of five years. This period can be extended for further five years. The supply of innovative BASF chemicals to our customers for research purposes will also be possible without registration after informing the authorities.

What is to be done when?

The REACH timelines:

June 1, 2007	REACH came into force
June 1, 2008	Beginning of pre-registration period
November 30, 2008	End of pre-registration period
November 30, 2010	Expiry of registration period for substances from 1000 metric tons per year 100 metric tons per year with environmental hazard classification N, R50/53 1 metric ton per year with CMR 1+ 2 properties
May 31, 2013	Expiry of registration period for 100 metric ton substances
May 31, 2018	Expiry of registration period for 1 metric ton substances

The necessary activities within BASF are coordinated in the Product Safety department.



What does BASF have to do as a “downstream user”?

BASF is not only a manufacturer and importer with registration obligations under REACH, but as a purchaser of raw materials is also a “downstream user” and thus in the same position as our customers.

As a “downstream user”, BASF is responsible for ensuring that

- raw material suppliers receive sufficient information for the safety assessments of BASF’s usages;
- the risk minimization measures stipulated by the supplier in the safety data sheet are implemented;
- a Chemical Safety Report is generated for BASF products insofar as necessary and resulting risk minimization measures are described in our safety data sheet. For BASF as a downstream user it is important that our raw material suppliers should also meet their obligations under REACH.

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REACH has direct and indirect effects on BASF as a purchaser of raw materials.

BASF

- knows that it is obliged to pass on certain information to suppliers or customers for products classified as hazardous;
- knows how important it is that its suppliers also meet their obligations under REACH and is making suitable preparations;
- checks whether the supplier of its raw material has included in its registration details a usage reported by BASF.



Who can assist me?

For product-specific questions:

Please get in touch with your contact person in BASF Marketing/Sales.

For suppliers of BASF:

E-mail: reach_rawmaterial@basf.com



Information and contacts can be found:

<http://reach.basf.com>

Further information about REACH can be found in the Internet:

- Homepage of the European Chemicals Agency and links to the national helpdesks:
<http://ec.europa.eu/echa>
- For VCI-member companies only:
www.reach.vci.de

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The Chemical Company

Together Ready for REACH



BASF knows what has to be done to comply with REACH. Because the world's largest chemical company is one of the enterprises most affected by REACH. Not only as a manufacturer and importer, but also as a user of chemicals BASF must ensure that the substances it uses meet the requirements.

Use the unique expert know-how offered by BASF *Success* to cope with REACH – quickly, competently and from a single source.

Some of the services we provide:

- assessment of current situation
- pre-registration
- registration
- authorisation
- communication with the European Chemicals Agency (ECHA)

Whether performing a data gap analysis, supporting the generation of safety data sheets or evaluating exposure levels – we offer you tailor-made solutions from A to Z at interesting conditions.

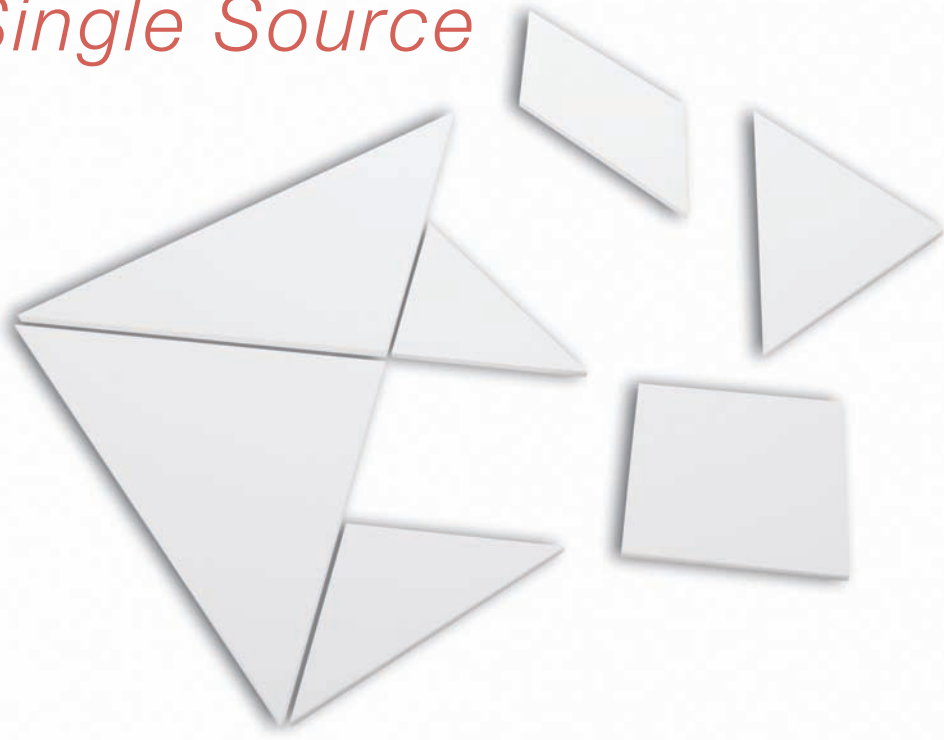
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The Chemical Company

S/U/C/C **e/s/s**

Added Value through Sustainability

BASF Success – *Customized Solutions from a Single Source*



You want to know what REACH is all about? We know the chemicals business inside out and can show you how to optimally implement REACH.

We analyze which REACH requirements are relevant to you and offer you for a service package specifically tailored to your needs which gives you maximum cost security.

Please contact us for an individual offer. You can also find more information about our services at www.basf.com/reach

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