

The Material Safety Data Sheet under REACH An indecipherable document?

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Advices for a better understanding of the Safety Data Sheets.

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REACH requirements have triggered changes in the structure and content of the Material Safety Data Sheet (MSDS) that caused a significant increase in its complexity. This brochure aims to give support in identifying data that are relevant to you.

On the other hand, BASF is simplifying the understanding of the Safety Data Sheets by a structure of the Annex following the standards of the European Chemicals Agency (ECHA). Besides being divided into sections, the annex includes an index that summarizes its frequently extensive content. As usual, we will continue forwarding to any new version of the Material Safety Data Sheet indicating the substantial changes they have suffered. In this document, we have compiled the following explanations:

The changes that have occurred in the Material Safety Data Sheet caused by REACH are the following:

- What does Material Safety Data Sheet "extended" and when you can get one?
- What is the significance of the exposure scenarios?
- Which actions should take the receiver of an enhanced Security Data Sheet?
- Which are the downstream user obligations under REACH?
- Glossary and contact persons.

What changes have generated REACH in the Material Safety Data Sheet?

Changes have been made in various sections of the new Material Safety Data Sheet:

Section 1: Identification of the substance or mixture and the society or company

If the chemical has been registered in REACH, the registration number should be indicated in this section. For more information on registration, go to "What chemicals have been registered so far?". In some cases, the Material Safety Data Sheet will not contain any registration number, **whether, for example,**

when the substance is exempted from REACH because it is a polymer, or because the deadline for registration has not yet been reached.

In addition to the registration number, this section contains the relevant uses of the substance or mixture and, if applicable, the non-advised uses by the manufacturer. In this sense, BASF provides a brief description of the use, detailing the use descriptors in the Annex to Material Safety Data Sheet.

Section 2: Hazards identification

In the case of substances, from the 1st of December 2010, the Safety Data Sheets should contain the classification and labeling according to GHS (Globally Harmonized System of Classification and Labelling) system.

Section 3: Composition / information on ingredients

During this section, the chemical identity of the ingredient or ingredients contained in the substance or mixture is specified. If substances in a mixture have been registered in the European Chemicals Agency (ECHA), in this section all relevant REACH registration numbers for hazardous ingredients of legal entities from BASF are indicated.

Section 8: Exposure controls / personal protection

If active chemical limits applicable to national and European level exist, they should be indicated in this section. For the availability of DNEL values (level without derivative effect) and / or PNEC (predicted non effect concentration) derived from an assessment of the Chemical Safety Report (CSA / CSR in its acronym in English), the relevant values will be specified to the exposure scenarios. In addition, measures of personal / individual to meet protection should also be provided in this section.

Section 15: Regulatory Information

This section contains, among other data, information on whether the chemical is



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subjected to restrictions or requires authorization. In specific cases, in its role as downstream user you should check whether obligations as a result of such restriction or authorization processes are triggered.

This section also contains information about whether it has carried out a chemical safety assessment under REACH.

ANNEX

New Material Safety Data Sheet may be remitted in the form of "Data Sheet Enhanced Security", which is so named because it contains an Annex.

What does "Data Sheet Enhanced Security" means and when might receive it?

In specific cases, the Material Safety Data Sheet contains an annex with exposure scenarios. In these cases, the term "Data Sheet Enhanced Security" is used. Exposure scenarios describe the conditions under which a chemical can be handled safely, and can be very extensive if they refer to all applications of an industrial association of downstream users (eg AISE, CEPE, etc.).

It is compulsory one Material Safety Data Sheet extended if the following conditions:

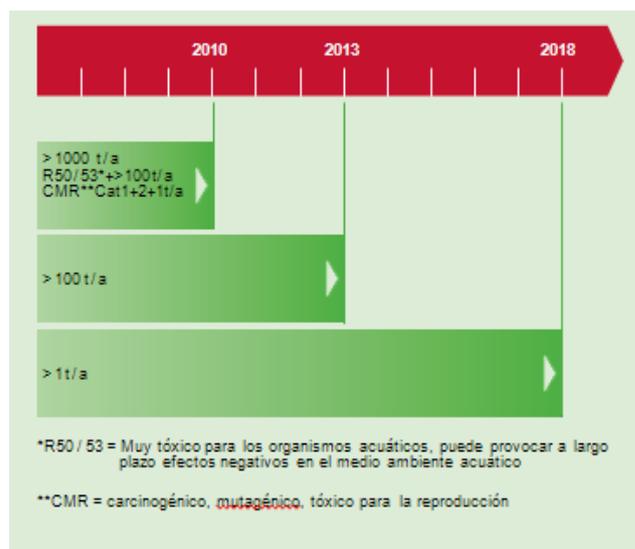
The SDS is a substance registered under REACH to ECHA Agency.

The chemical is manufactured or imported in quantities of 10 tonnes / year.

The chemical substance is classified as hazardous.

What chemicals have been registered so far?

The registration requirement applies to all chemicals manufactured by a European legal entity in more than 1 ton / year, or the amount imported in the European Union by a legal entity. For all those substances already on the market before the entry into force of REACH, there are transition periods for registration.



What are exposure scenarios?

Exposure scenarios describe the conditions under which the chemical can be manufactured, used and handled safely. They are the result of a detailed assessment of chemical safety by the registering entity, and are provided to the customer through the annex of the SDS.

BASF exposure scenarios always follow the same structure:

First, the short title of the scenario highlights what uses will be evaluated. Then, the detailed conditions are listed below in a table form (eg, conditions of use such as temperature, duration of activity and risk reduction measures, local ventilation, protective gloves against chemicals) for safe use. This basic structure follows the recommendations of the European Agency ECHA.

The extended SDS BASF index

At BASF, the Annex to the extended SDS contains an index of exposure scenarios aiming to provide customers with the location of the information. The index contains all short titles of exposure scenarios and their corresponding use descriptors.

Example:

- 1) Formulation and packing/repacking of chemicals and compounds
SU 3; SU 10; ERC 2; PROC 1; PROC 2; PROC 3; PROC 4; PROC 5; PROC 8a; PROC 8b; PROC 9; PROC 15
- 2) Use as monomer / intermediate

SU 3; SU 8, SU 9; ERC 6a; PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9

3) Use in coatings / printing inks / adhesives

SU 3; ERC 4; PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 15

The list with the details of the use descriptors (eg SU 3 or PROC 7 in the above example) is in the document Guidance on information requirements and chemical safety assessment, ECHA Agency.

What should I do as a receiver of an extended SDS?

In addition to the usual verification of sections 1-16 of the SDS, a review of the contents of the Annex should also be included in the case of receiving an extended SDS.