Compliance to List of Declarable Substances (LoDS)
Basis for REACH Art. 33 compliance

V1.0 2010-04-28
Overview

1. Legal Background
2. Implications for procurement
3. Compliance to LoDS
REACH regulation’s motto is: No data = no market!

- **New EU regulation** with broad scope covering almost all chemicals
- REACH encompasses a series of **registration, evaluation, and authorisation** duties administered by the EChA\(^1\)
- Relevant requirements for industry are listed below:

  **Registration**
  - When **manufacturing or importing from outside the EU ≥ 1 tonne/year**, the imported chemicals must be **registered**
  - To take advantage of an **extended registration deadline**, imports must be **pre-registered**. This **deadline** depends on the **tonnage and hazard classification**

  **Information**
  - When **substances of very high concern (SVHC\(^2\))** are present in products ≥ 0.1% weight by weight, **customers have to be informed**
  - This **information** shall be received from **suppliers** and it needs to be **passed** along the entire supply chain

  **Authorisation**
  - **Applications related to certain SVHC require authorisation**
  - These selected SVHC will be part of **Authorisation List (REACH Annex XIV)**

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\(^1\) European Chemicals Agency based in Helsinki

\(^2\) SVHC can be either carcinogens, mutagens or toxic to reproduction, or persistent, bioaccumulative, and toxic, or very persistent and very bioaccumulative and are put on the candidate list for authorisation by ECHA
Registration scope is very broad, while information applies only to “articles”

<table>
<thead>
<tr>
<th><strong>Definition</strong></th>
<th><strong>Substance</strong></th>
<th><strong>Mixture</strong></th>
<th><strong>Article</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Chemical element and its compounds</strong> in the natural state or obtained by any manufacturing process</td>
<td><strong>Mixture or solution</strong> composed of two or more substances</td>
<td><strong>Object</strong> which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition</td>
</tr>
</tbody>
</table>

**Example**
- **Substance**: Copper powder, Acetone
- **Mixture**: Paint, Granulated plastic
- **Article**: Cables, Circuit board, Wind turbine (blades, tower, gearbox, etc)

One product = 1 or more articles!
Overview

1. Legal Background
2. Implications for Suppliers
3. Further information
Supplier plays a central role for achieving REACH Art. 33 compliance

<table>
<thead>
<tr>
<th>REACH Information Regulations</th>
<th>Implications for Siemens Suppliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information</td>
<td><strong>Contracts</strong> for delivery of relevant products(^1) ought to be adapted</td>
</tr>
<tr>
<td></td>
<td><strong>Inform</strong> Substance declaration, based on LoDS(^2), must be completed and signed and sent back to Siemens requestor(^3)</td>
</tr>
</tbody>
</table>

\(^{1}\)these are products that fulfill the definition of article (see slide 4)

\(^{2}\)List of declarable substances (LoDS) covers European substance restrictions (see slide 7)

\(^{3}\)within c4s easy or return via Mail or Email as received
The List of Declarable Substances - outlines European substances restrictions like REACH & RoHS\(^1\)

**REACH Regulation 1907/2006**

**Substance Information:**
If REACH substances are present in products ≥ 0.1%, customers have to be informed

**RoHS Regulation 2002/95/EG**

**Substances Restriction:**
e.g. lead, mercury, cadmium are prohibited in electrical & electronic products

As the ECHA\(^2\) intends to enhance the REACH candidate list every 6 months → relevant suppliers must ensure to renew their declaration twice per year

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\(^1\) RoHS = Restriction of (the use of certain) hazardous substances
\(^2\) European Chemicals Agency based in Helsinki
Implemented Process ensures supplier commitment to the LoDS\(^1\) through a general substance declaration

**Process**

- In general, Suppliers are qualified through Siemens wide mandatory SQ\(^2\) process
- General Substances Declaration is required as part of the EHS module within SQ process
- Process will ensure that relevant suppliers commit to the Substance Declaration by signature
- Substance Declaration request supplier to state whether products contain substances of the LoDS\(^1\)

**General Substance Declaration**

Declaration: Declarable Substances – Form

Do any of the products or packaging you currently deliver or plan to deliver to Siemens AG and its subsidiaries\(^2\) (together, “Siemens Group”) contain any of the substances listed in the List of Declarable Substances? (See the attached list of “LoDS” in concentration above the threshold limits contained in this box!) (For reference, we have highlighted changes to the previous version of the LoDS.)

- Yes, none of the products or packaging contain materials that are listed in the LoDS.
- We are happy to receive a declaration for each of those. If a change is required due to changes in our regulations or changes in our regulations or changes in our regulations, we will notify you and ask you to update your declaration.
- Yes, some of the products or packaging contain substances that are listed in the LoDS.
- We provide the required product related data in electronic form by using:
  - BOM Check (This is the preferred option of Siemens Group)
  - Other (please specify):

When using BOM Check database for the required information for all products and packaging currently delivered to Siemens Group, we will ensure that this information is kept up to date with any future additions to the LoDS (i.e., declarable substance list). Should Siemens Group require any new products in the future, we will also enter this required information into the BOM Check database for such products and packaging.

- Upload the electronic transfer of Substance Declaration

When uploading the electronic transfer of Substance Declaration, we will provide further information on packaging of our products. For additional information, contact our EHS department.

- Electronic transfer of Substance Declaration

We are happy to receive the electronic transfer of Substance Declaration as set out in the format on this page. If such update is required due to changes in our regulations or changes in our regulations, we will provide further information on packaging of our products and packaging of our products. Should Siemens Group require any new products in the future, we will also enter this required information into the BOM Check database for such products and packaging.

Should Siemens Group require any new products in the future and such future products or packaging would be affected by LoDS using at the time of delivery of Siemens Group, we will inform Siemens in writing and receive a declaration.

In addition, if compliance with substantive protection requires a modification to the process we deliver to Siemens AG and its subsidiaries, we will provide the revised version of this query and in accordance with any other agreements – written Siemens in writing and within a reasonable time period after delivery of the modified product.

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\(^1\) List of Declarable Substances

\(^2\) [www.siemens.com/scm/supplier/sq](http://www.siemens.com/scm/supplier/sq)
For detailed product declaration\(^1\), BOMcheck is the preferred declaration method for Siemens

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>BOMcheck is a substance declarations tool that enables suppliers to comply with the applicable REACH and RoHS requirements</td>
</tr>
<tr>
<td>Each supplier can enter the required substance data and make it available to the correspondent manufacturer</td>
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<tr>
<td>Each supplier pays a subscription of 300 Euros per year to join BOMcheck (membership is free for small suppliers)</td>
</tr>
<tr>
<td>Further information: <a href="http://www.bomcheck.net/">http://www.bomcheck.net/</a></td>
</tr>
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<tr>
<th>Advantages</th>
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<tr>
<td>Low costs since membership is free for manufacturers provided they agree to send a letter to their suppliers to require them to comply with their REACH requirements by joining BOMcheck</td>
</tr>
<tr>
<td>Substance list does match all substances as listed in LoDS “List of declarable Substances”</td>
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<tr>
<td>Simple use of database</td>
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<table>
<thead>
<tr>
<th>Disadvantages</th>
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<tbody>
<tr>
<td>Annual Cost of 300 Euro</td>
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<table>
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<tr>
<th>Alternatives</th>
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<tbody>
<tr>
<td>Siemens Format for electronic transfer of Substance Declaration</td>
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</tbody>
</table>

\(^1\) detailed product declaration means substance information ≥0.1% weight/weight for each product
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Further Information

REACH Siemens website

Environmental Protection & Technical Safety for Suppliers

Information on restricted substance from suppliers
Reach relevant information can be found online

1) see: http://www.siemens.com/reach
Reach-relevant information can be found online.