
XProductNotification

**XML Data Exchange Format
for Notification of Products
to BfR**

including CLP

Table of Contents

1	Introduction	4
2	General structure of an XML file	4
3	The elements of XProductNotification.....	5
3.1	The <ProductNotification> root element	5
3.2	The <Notifier> element.....	6
3.3	The <TimestampOfNotification> element	6
3.4	The <ProductList> element	7
3.5	The <Product> element.....	7
3.6	The <TypeOfNotification> element.....	8
3.7	The <IsDetergentOrCleaner> element	8
3.8	The <ProductName> element	8
3.9	The <CompanyInformation> element	8
3.10	The <Formulation> element.....	9
3.11	The <FurtherProductInformation> element	12
3.11.1	The <FieldOfApplication> element	12
3.11.2	The <IntendedUse> element.....	12
3.11.3	The <Packaging> element	12
3.11.4	The <LabellingUnderGefStoffV> element.....	13
3.11.4.1	The <HazardSymbols> element	13
3.11.4.2	The <R_Phrases> element	14
3.11.4.3	The <S_Phrases> element.....	14
3.11.5	The <LabellingUnderCLP> element	15
3.11.5.1	The <SignalWord> element.....	16
3.11.5.2	The <HazardPictograms> element.....	17
3.11.5.3	The <H_Statements> element.....	17
3.11.5.4	The <P_Statements> element.....	18
3.11.5.5	The <EUH_Statements> element.....	19
3.11.6	The <CLPClassification> element	19
3.11.7	The <ProductIdentification> element	20
3.11.8	The <Consistency> element.....	20
3.11.9	The <Colour> element.....	20
3.11.10	The <pHValues> element	21
3.11.11	The <BiocideCategories> element.....	22
3.11.12	The <CategoriesOfUse> element	23
3.11.13	The <AdditionalLabelling> element.....	23
3.11.14	The <HazardousReactions> element.....	24
3.11.15	The <ChildResistantFastening> element	24
3.11.16	The <TactileWarning> element.....	24
3.11.17	The <PropellantSpray> element	24
3.11.18	The <PumpSpray> element.....	25
3.11.19	The <SprayerClosure> element.....	25
3.11.20	The <DropperClosure> element.....	25
3.11.21	The <PushPullClosure> element	25
3.11.22	The <MarketedFrom> element	26
3.11.23	The <MarketedUntil> element.....	26
3.11.24	The <SDSheet> element	26
3.11.25	The <Label> element.....	26
3.11.26	The <Remarks> element	27
3.12	Explicit specification of <None>	27
4	Example of a minimum notification	28

5	Annex A: Hazard symbols	29
6	Annex B: R Phrases:	30
7	Annex C: S Phrases	33
8	Annex D: CLP Hazard pictograms	35
9	Annex E: CLP H Statements (hazard statements)	36
10	Annex F: CLP P Statements (precautionary statements)	39
11	Annex G: CLP EUH Statements (supplemental hazard information)	42
12	Annex H: CLP classification categories	43
13	Annex I: Categories of use	45
14	Annex J: Biocide categories	52

1 Introduction

For the notification of products in electronic form, the definition of a data exchange format is required.

The XML format has become established as a standard for data exchange. Therefore, BfR has defined an XML-based format entitled XProductNotification.

XProductNotification is an XML schema for product information exchange.

2 General structure of an XML file

By means of XML, contents are subdivided into functional blocks by means of descriptive labels. These labels are referred to as elements or tags.

Elements are enclosed in angle brackets, e.g.: `<ProductNotification>`.

For the processing of an XML document by means of XML tools, a number of rules and conditions have to be fulfilled as minimum requirements. If these rules are complied with, a document is considered as well-formed.

Such well-formedness also includes that a closing tag must exist together with each opening tag:

```
<ProductName>product example</ProductName>
```

Sections marked by tags may also be nested. However, care should be taken that each tag must be completed before a superordinate tag is completed.

In addition, well-formedness requires the XML document to have a root element enclosing the entire document. All labels used within the document are hierarchically enclosed within the root element.

3 The elements of XProductNotification

The entire definition of the interface is contained in the **XProductNotification.xsd** file. The first line in the XML document should always read as follows:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
```

This will define that only characters from the Western European charset are used.

In addition, the following rules apply:

1. The date is always specified in the YYYY-MM-DD format.
2. In numerals, the dot (not the comma) should be used as a decimal separator.

3.1 The <ProductNotification> root element

The element, <ProductNotification> represents the root element of XProductNotification.

This element creates the link to the XML schema **XProductNotification.xsd**. It encloses the entire XML document.

The <ProductNotification> start element will always have the following fixed structure:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ProductNotification
  xmlns = "http://www.bfr.bund.de/2010/xproductnotification"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation =
    "http://www.bfr.bund.de/2010/xproductnotification
    XProductNotification.xsd">
  ...
</ProductNotification>
```

Within the `<ProductNotification>` element, there are three main elements:

<code><Notifier></code>	Contains the information about who makes the notification.
<code><TimestampOfNotification></code>	Contains the information about the date and time of the notification.
<code><ProductList></code>	List of products to be notified.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ProductNotification
  xmlns = "http://www.bfr.bund.de/2010/xproductnotification"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation =
    "http://www.bfr.bund.de/2010/xproductnotification
    XProductNotification.xsd">

  <Notifier>2129</Notifier>
  <TimestampOfNotification>2011-10-05T08:45:00</TimestampOfNotification>

  <ProductList>
    ...
  </ProductList>
</ProductNotification>
```

3.2 The `<Notifier>` element

The `<Notifier>` element contains the notifier's BfR company code.

Required element: Yes

```
<Notifier>2129</Notifier>
```

3.3 The `<TimestampOfNotification>` element

The `<TimestampOfNotification>` element contains the timestamp of the time when the notification was created.

Required element: Yes

Format: YYYY-MM-DDTHH:MI:SS
The letter "T" serves as a standard separator between date and time.

```
<TimestampOfNotification>2011-10-05T08:45:00</TimestampOfNotification>
```

3.4 The <ProductList> element

The <ProductList> element contains an arbitrary number of <Product> elements. Hence, a notification may contain an arbitrary number of products.

Required element: Yes

```
<ProductList>
  <Product>
    ...
  </Product>
  <Product>
    ...
  </Product>
  ...
</ProductList>
```

3.5 The <Product> element

The <Product> element contains all product data in the following elements:

<TypeOfNotification>	Legal basis of the product notification
<IsDetergentOrCleaner>	Is the product a detergent and/or cleaner (i.e. as defined under the German Detergents and Cleaning Agents Act – WRMG)?
<ProductName>	Name of the product
<CompanyInformation>	Manufacturer and/or distributor of the product
<Formulation>	Formulation of the product
<FurtherProductInformation>	Further information on the product (mostly optional)

Required element: Yes

```
<Product>
  <TypeOfNotification>Voluntary Notification</TypeOfNotification>
  <IsDetergentOrCleaner>Yes</IsDetergentOrCleaner>
  <ProductName>Sample Product XXL</Produktname>
  <CompanyInformation>
    <Firma BfRCompanyCode="4450" Type="Manufacturer"/>
    <Firma BfRCompanyCode="2129" Type="Distributor"/>
    <Firma BfRCompanyCode="4450" Type="Distributor"/>
  </CompanyInformation>
  <Formulation>
    ...
  </Formulation>
  <FurtherProductInformation>
    ...
  </FurtherProductInformation>
</Product>
```

3.6 The <TypeOfNotification> element

The <TypeOfNotification> element indicates the legal basis of notification of the product concerned. Possible specifications include:

- Notifiable under §16e
(Notification under the German Chemicals Act, applies to all preparations)
- Biocide Notification
(applies to all biocidal products)
- Detergent Notification
(Notification under the German Detergents and Cleaning Agents Act, applies to all detergents and cleaners, unless notifiable under §16e Chemicals Act or as biocide)
- Voluntary Notification
(no legal obligation to notify)

Required element: Yes

```
<TypeOfNotification>Voluntary Notification</TypeOfNotification>
```

3.7 The <IsDetergentOrCleaner> element

The <IsDetergentOrCleaner> element is to indicate whether the product is also a detergent and/or cleaner (i.e. as defined under the German Detergents and Cleaning Agents Act – WRMG).

Possible specifications include:

- Yes
- No

Required element: No

```
<IsDetergentOrCleaner>Yes</IsDetergentOrCleaner>
```

3.8 The <ProductName> element

This element contains the product name.

Required element: Yes

```
<ProductName>Sample-Product</ProductName>
```

3.9 The <CompanyInformation> element

This element lists the companies related to a product as

- Manufacturer or
- Distributor.

Required element: Yes

At least one company must be specified. An arbitrary number of distributors may be stated, however, no more than one manufacturer.

A company is identified by means of the company code assigned by BfR.

3.10 The <Formulation> element

The <Formulation> element will list the components of the product by means of the <Ingredient> elements.

Required element: Yes

A <Ingredient> element will contain the following elements:

<u>Element</u>	<u>Required element</u>
• <SubstanceName>	Yes
• <Nanoparticles>	No
• <Cas_Numbers>	No
• <Concentration>	Yes
• <R_Phrases>	No
• <H_Statements>	No
• <EUH_Statements>	No
• <SDSheet> (Safety Data Sheet)	No

```
<Formulation>
  <Ingredient>
    <SubstanceName>Stoff 1</SubstanceName>
    <Nanoparticles>Yes</Nanoparticles>
    <Cas_Numbers>
      <Cas_Number>000000-00-0</Cas_Number>
    </Cas_Numbers>
    <Concentration>
      <ValueFromQualifier>approx.</ValueFromQualifier>
      <ValueFrom>12.3</ValueFrom>
      <ValueToQualifier>&lt;</ValueToQualifier>
      <ValueTo>12.9</ValueTo>
    </Concentration>
    <R_Phrases>
      <R_Phrase_No>12</R_Phrase_No>
    </R_Phrases>
    <H_Statements>
      <H_Statement>
        <H_Statement_No>250</H_Statement_No>
      </H_Statement>
    </H_Statements>
    <EUH_Statements>
      <EUH_Statement>
        <EUH_Statement_No>205</EUH_Statement_No>
      </EUH_Statement>
    </EUH_Statements>
    <SDSheet>stoff_1.pdf</SDSheet>
  </Ingredient>

  <Ingredient>

    ...

</Ingredient>
</Formulation>
```

Possible specifications for <Nanoparticles> include Yes or No.

For a single substance, more than one CAS number may be stated.

The concentration may be specified in three different ways:

- As a value
- As a range from – to
- ad 100

A single value may be preceded by a qualifier.

Allowable qualifiers include: “approx.”, “<”, “<=”, “=”, “>”, and “>=”.

To specify ranges, the “from” values may be preceded by the qualifiers, “approx.”, “>”, “>=”, and the “to” values, by the qualifiers, “approx.”, “<”, “<=” and “=”.

In a XML document, the characters “<” and “>” have special functions. If they are used as qualifiers, these characters must therefore be expressed as follows:

“>” is represented by “>” and
 “<” is represented by “<”.

Examples for specifying concentrations:

5.1	<pre><Concentration> <Value>5.1</Value> </Concentration></pre>
< 5.1	<pre><Concentration> <Qualifier>&lt;</Qualifier> <Value>5.1</ Value> </Concentration></pre>
> 5.1	<pre><Concentration> <Qualifier>&gt;</Qualifier> <Value>5.1</ Value> </Concentration></pre>
approx. 7	<pre><Concentration> <Qualifier>approx.</Qualifier> <Value>7</ Value> </Concentration></pre>
0.2 – 0.9	<pre><Concentration> <ValueFrom>0.2</ValueFrom> <ValueTo>0.9</ValueTo> </Concentration></pre>
approx. 0.2 - < 0.9	<pre><Concentration > <ValueFromQualifier>approx.</ValueFromQualifier> <ValueFrom>0.2</ValueFrom> <ValueToQualifier>&lt;</ValueToQualifier> <ValueTo>0.9</ValueTo> </Concentration></pre>
ad 100	<pre><Concentration> <Ad_100/> </Concentration></pre>
ad 100	<pre><Concentration> <Ad_100></Ad_100> </Concentration></pre>

For R Phrases, the rules described in Chapter 3.11.4.2 shall apply.

For H Statements, the rules described in Chapter 3.11.5.3 shall apply.

For EUH Statements, the rules described in Chapter 3.11.5.5 shall apply.

In the <SDSheet> element, a file name should be specified referring to a file that must be located in the same directory as the XML file of the product notification.

3.11 The <FurtherProductInformation> element

This element contains further information on the product.

Required element: Yes

Most of the 26 specifications are optional. Required specifications include:

1. Field of application
2. Intended use
3. Packaging
4. Labelling under the GefStoffV or Labelling under the CLP.

All specifications must be provided in the defined order.

3.11.1 The <FieldOfApplication> element

Possible values for the field of application include:

- private
- private/commercial
- commercial.

Required element: Yes

```
<FieldOfApplication>private</FieldOfApplication>
```

3.11.2 The <IntendedUse> element

The intended use is specified as an arbitrary text.

Required element: Yes

```
<IntendedUse>Detergent</IntendedUse>
```

3.11.3 The <Packaging> element

The packaging is specified as an arbitrary text.

Required element: Yes

```
<Packaging>Cardboard a 25 kg</Packaging>
```

3.11.4 The <LabellingUnderGefStoffV> element

The labelling under the GefStoffV (German Regulations on Dangerous Substances and Materials) contains information on hazard symbols, R and S Phrases.

Required element:

Either the <LabellingUnderGefStoffV> element or the <LabellingUnderCLP> element (see Chapter 3.11.5) is a required element to describe a product.

Within the <LabellingUnderGefStoffV> element, all specifications are required elements. In cases where neither hazard symbols nor R or S Phrases apply, <None/> must be stated explicitly.

```
<LabellingUnderGefStoffV>
  <HazardSymbols>
    <None/>
  </HazardSymbols>
  <R_Phrases>
    <None/>
  </R_Phrases>
  <S_Phrases>
    <None/>
  </S_Phrases>
</LabellingUnderGefStoffV>
```

3.11.4.1 The <HazardSymbols> element

Hazard symbols to choose from include (see also list in Annex A):

- C
- T
- T+
- Xn
- Xi
- F
- F+
- N
- E
- O

Required element: Yes

In cases where no hazard symbols apply to the product concerned, the tag <None/> must be stated.

If several hazard symbols apply, they have to be specified. No enumerations separated by commas are allowed.

```
<HazardSymbols>
  <HazardSymbol>C</HazardSymbol>
  <HazardSymbol>T</HazardSymbol>
  <HazardSymbol>Xi</HazardSymbol>
</HazardSymbols>
```

```
<HazardSymbols>
  <None/>
</HazardSymbols>
```

3.11.4.2 The <R_Phrases> element

R Phrases specified must be valid R Phrases, see list in Annex B.

Only the R Phrase number is stated, i.e. without the letter “R”. Each R Phrase number has to be stated separately. Enumerations separated by commas are not allowed.

Required element: Yes

In cases where no R Phrases apply to the product concerned, the <None/> tag must be stated.

```
<R_Phrases>
  <R_Phrase_No>1</R_Phrase_No>
  <R_Phrase_No>12</R_Phrase_No>
  <R_Phrase_No>28</R_Phrase_No>
</R_Phrases>
```

```
<R_Phrases>
  <None/>
</R_Phrases>
```

3.11.4.3 The <S_Phrases> element

S Phrases specified must be valid S Phrases, see list in Annex C.

Only the S phrase number is stated, i.e. without the letter “S”.

A number of S Phrases have variable text parts. In these cases, the S Phrase number and the complete S Phrase text must be specified. For S Phrases without variable text, only the S Phrase number is required.

Required element: Yes

In cases where no S Phrases apply to the product concerned, the `<None/>` tag must be stated.

```
<S_Phrases>
  <S_Phrase >
    <S_Phrase_No>3/9/14</S_Phrase_No>
    <S_Phrase_Text>An einem kühlen, gut belüfteten Ort,
                      entfernt von Laugen aufbewahren.</S_Phrase_Text>
  </S_Phrase>
  <S_Phrase>
    <S_Phrase_No>13</S_Phrase_No>
  </S_Phrase>
  <S_Phrase>
    <S_Phrase_No>29</S_Phrase_No>
  </S_Phrase>
</S_Phrases>
```

```
<S_Phrases>
  <None/>
</S_Phrases>
```

3.11.5 The <LabellingUnderCLP> element

The labelling under the CLP contains information on signal word, hazard pictograms, H, P and EUH Statements.

H Statements:	Hazard Statements
P Statements:	Precautionary Statements
EUH Statements:	Supplemental hazard information.

Required element:

Either the `<LabellingUnderCLP>` element or the `<LabellingUnderGefStoffV>` element (see Chapter 3.11.4) is a required element to describe a product.

Within the <LabellingUnderCLP> element, required elements include the specification of signal words, hazard pictograms, H and P Statements (EUH Statements being optional). In cases where no hazard pictograms, no H and/or P Statements apply, <None/> must be stated explicitly.

```
<LabellingUnderCLP>
  <SignalWord> No signal word</SignalWord>
  <HazardPictograms>
    <None/>
  </HazardPictograms>
  <H_Statements>
    <None/>
  </H_Statements>
  <P_Statements>
    <None/>
  </P_Statements>
</LabellingUnderCLP>
```

3.11.5.1 The <SignalWord> element

Possible signal word choices include:

1. Warning
2. Danger
3. No signal word

Required element: Yes

In cases where no signal word applies to the product concerned, “No signal word” must be stated.

```
<SignalWord> Danger</SignalWord>
```

```
<SignalWord>No signal word</SignalWord>
```


3.11.5.2 The <HazardPictograms> element

Hazard pictograms include (see also list in Annex D):

- GHS01
- GHS02
- GHS03
- GHS04
- GHS05
- GHS06
- GHS07
- GHS08
- GHS09

Required element: Yes

In cases where no hazard pictograms apply to the product concerned, the <None/> tag must be stated.

If several hazard pictograms apply, they have to be stated separately. Enumerations separated by commas are not allowed.

```
<HazardPictograms>
  <HazardPictogram>GHS01</HazardPictogram>
  <HazardPictogram>GHS03</HazardPictogram>
</HazardPictograms>
```

```
<HazardPictograms>
  <None/>
</HazardPictograms>
```

3.11.5.3 The <H_Statements> element

H Statements (hazard statements) specified must be valid H Statements, see list in Annex E. Only the H Statement number is given, i.e. without the letter “H”.

For combined H Statements such as “H302 + H312 + H332”, all letters “H” and all spaces must be omitted, i.e. the above example H Statement should read “302+312+332”.

A number of H Statements have variable text parts. In these cases, the H Statement number and the complete H Statement text must be specified.

For H Statements without variable text, only the H Statement number is required.

Required element: Yes

In cases where no H Statements apply to the product concerned, the <None/> tag must be stated.

```
<H_Statements>
  <H_Statement>
    <H_Statement_No>250</H_Statement_No>
  </H_Statement>
  <H_Statement>
    <H_Statement_No>372</H_Statement_No>
    <H_Statement_Text> Causes damage to kidney or liver.</H_Statement_Text>
  </H_Statement>
  <H_Statement>
    <H_Statement_No>302+312+332</H_Statement_No>
  </H_Statement>
</H_Statements>
```

```
<H_Statements>
  <None/>
</H_Statements>
```

3.11.5.4 The <P_Statements> element

P Statements (precautionary statements) specified must be valid P Statements. In selecting the precautionary statements you may choose a single one or combine the P Statements (see list in Annex F).

Only the P Statement number is given, i.e. without the letter "P".

For combined P Statements such as "P301 + P330 + P331", all letters "P" and all spaces must be omitted, i.e. the above example P Statement should read "301+330+331".

A number of P Statements have variable text parts. In these cases, the P Statement number and the complete P Statement text must be specified. For P Statements without variable text, only the P Statement number is required.

Required element: Yes

In cases where no P Statements apply to the product concerned, the <None/> tag must be stated.

```
<P_Statements>
  <P_Statement>
    <P_Statement_No>230</P_Statement_No>
    <P_Statement_Text> Keep wetted with water.</P_Statement_Text>
  </P_Statement>
  <P_Statement>
    <P_Statement_No>103</P_Statement_No>
  </P_Statement>
  <P_Statement>
    <P_Statement_No>235+410</P_Statement_No>
  </P_Statement>
</P_Statements>
```

3.11.5.5 The <EUH_Statements> element

EUH Statements (supplemental hazard information) specified must be valid EUH Statements, see list in Annex G.

Only the EUH Statement number is given, i.e. without the letters “EUH”.

A number of EUH Statements have variable text parts. In these cases, the EUH Statement number and the complete EUH Statement text must be specified. For EUH Statements without variable text, only the EUH Statement number is required.

Required element: No

```
<EUH_Statements>
  <EUH_Statement>
    <EUH_Statement_No>208</ EUH_Statement_No>
    <EUH_Statement_Text> Contains Tensides.
                          May produce an allergic reaction.
  </EUH_Statement_Text>
  </EUH_Statement>
  <EUH_Statement>
    <EUH_Statement_No>209A</ EUH_Statement_No>
  </EUH_Statement>
</EUH_Statements>
```

3.11.6 The <CLPClassification> element

This element provides for the specification of the CLP classification categories. For this purpose, the official abbreviation must be used, see list in Annex H.

If no classification categories apply, <None/> may be stated explicitly.

Required element: No

```
<CLPClassification>
  <HazardCategory> Expl. 1.1</HazardCategory>
  <HazardCategory> Org. Perox. CD</HazardCategory>
</CLPClassification>
```

3.11.7 The <ProductIdentification> element

The product identification will include:

- Article number
- BAuA Number
(BAuA means the Federal Institute for Occupational Safety and Health in Germany)
- EAN code
- PI element
- Other product identification

Required element: No

For each identification, an arbitrary number of statements is allowed.

```
<ProductIdentification>
  <ArticleNumber>1234</ArticleNumber>
  <BAuA_Number>N-11233</BAuA_Number>
  <EAN_Code>1234567890123</EAN_Code>
  <PI_Element>i-02345-08911-GHS99</PI_Element>
  <ProductIdentification_Other>
    6771-545454
  </ProductIdentification_Other>
</ProductIdentification>
```

3.11.8 The <Consistency> element

The consistency is specified as arbitrary text.

Required element: No

```
<Consistency>solid</Consistency>
```

3.11.9 The <Colour> element

The colour is specified as arbitrary text.

Required element: No

```
<Colour>red</Colour>
```

3.11.10 The <pHValues> element

Required element: No

One or more pH values may be stated per product. A pH value is described by the <pHValue> element. Specification of a pH value will include:

- A value, optionally preceded by a qualifier (possible qualifiers include: "approx.", "<", "<=", "=", ">", ">=")
- or an range of values ("from" value and "to" value)
- Remark

In a XML document, the characters "<" and ">" have special functions. If they are used as qualifiers, these characters must therefore be expressed as follows:

">" ">,"
"<" "<,"

```
<pHValues>
  <pHValue>
    <pHValue_From>4.5</pHValue_From>
    <pHValue_To>4.8</pHValue_To>
  </pHValue>
  <pHValue>
    <pHValue_Qualifier>approx.</pHValue_Qualifier>
    <pHValue_Value>7.9</pHValue_Value>
    <pHValue_Remark>concentrated</pHValue_Remark>
  </pHValue>
  <pHValue>
    <phWert_Remark>neutral</phWert_Remark>
  </pHValue>
</pHValues>
```

Examples for specifying pH values:

4.2	<pre><pHValue> <pHValue_Value>4.2</pHValue_Value> </pHValue></pre>
< 4.2	<pre><pHValue> <pHValue_Qualifier >< </pHValue_Qualifier> <pHValue_Value >4.2</pHValue_Value> </pHValue></pre>
> 4.2	<pre><pHValue> <pHValue_Qualifier>></pHValue_Qualifier> <pHValue_Value>4.2</pHValue_Value> </pHValue></pre>
approx. 7	<pre><pHValue> <pHValue_Qualifier>approx.</pHValue_Qualifier> <pHValue_Value>7</pHValue_Value> </pHValue></pre>
1.4 – 2.4	<pre><pHValue> <pHValue_From>1.4</pHValue_From> <pHValue_To>2.4</pHValue_To> <pHValue_Remark>10% dilution</pHValue_Remark> </pHValue></pre>
1.4 – 2.4	<pre><pHValue> <pHValue_From>1.4</pHValue_From> <pHValue_To>2.4</pHValue_To> </pHValue></pre>
acid	<pre><pHValue> <pHValue_Remark>acid</pHValue_Remark> </pHValue></pre>
neutral	<pre><pHValue> <pHValue_Remark>neutral</pHValue_Remark> </pHValue></pre>

3.11.11 The <BiocideCategories> element

Required element: Yes, if “biocide notification” has been stated for the type of notification (see 3.6). In this case, specification of at least one biocide category is required.

No, otherwise

Only the category names listed in Annex J or their numbers are allowed.

The <BiocideCategories> element encloses an arbitrary number of <BiocideCategory> elements composed of the elements:

- <BiocideMainGroup> required
- <BiocideProductType> optional
- <BiocideProductTypeLevel3> optional

```

<BiocideCategories>
  <BiocideCategory>
    <BiocideMainGroup>
      Disinfectants and general biocidal products
    </BiocideMainGroup>
    <BiocideProductType>
      Private area and public health area disinfectants
      and other biocidal products
    </BiocideProductType>
    <BiocideProductTypeLevel3>
      Biocidal products to be used in swimming pools etc.
    </BiocideProductTypeLevel3>
  </BiocideCategory>
  <BiocideCategory>
    <BiocideMainGroup>Preservatives</BiocideMainGroup>
  </BiocideCategory>
</BiocideCategories>

```

3.11.12 The <CategoriesOfUse> element

Required element: No

The <CategoriesOfUse> element encloses an arbitrary number of <CategoryOfUse> elements composed of the elements:

- <Level1> required
- <Level2> optional

Allowed categories include only those listed in Annex I.

```

<CategoriesOfUse>
  <CategoryOfUse>
    <Level1>Vehicle cleaning/vehicle care product</Level1>
  </CategoryOfUse>
  <CategoryOfUse>
    <Level1>Floor cleaner / floor polish</Level1>
    <Level2>Floor impregnation product (for all floor types)</Level2>
  </CategoryOfUse>
</CategoriesOfUse>

```

3.11.13 The <AdditionalLabelling> element

Required element: No

Any additional labelling is specified as an arbitrary text.

```

<AdditionalLabelling>xxxxx</AdditionalLabelling>

```

3.11.14 The <HazardousReactions> element

Required element: No

Possible hazardous reactions are specified as an arbitrary text.

```
<HazardousReactions>yyyyyyy</HazardousReactions>
```

3.11.15 The <ChildResistantFastening> element

Required element: No

Possible specifications for child-resistant fastening only include:

- Yes
- No

```
<ChildResistantFastening>Yes</ChildResistantFastening>
```

3.11.16 The <TactileWarning> element

Required element: No

Possible specifications regarding the tactile warning of danger only include:

- Yes
- No

```
<TactileWarning>No</TactileWarning>
```

3.11.17 The <PropellantSpray> element

Required element: No

Possible specifications regarding propellant spray only include:

- Yes
- No

Specifying nothing will be interpreted as “No”.

```
<PropellantSpray>Yes</PropellantSpray>
```


3.11.18 The <PumpSpray> element

Required element: No

Possible specifications regarding pump spray only include:

- Yes
- No

Specifying nothing will be interpreted as “No”.

```
<PumpSpray>Yes</PumpSpray>
```

3.11.19 The <SprayerClosure> element

Required element: No

Possible specifications regarding the sprayer closure only include:

- Yes
- No

Specifying nothing will be interpreted as “No”.

```
<SprayerClosure>No</SprayerClosure>
```

3.11.20 The <DropperClosure> element

Required element: No

Possible specifications regarding the dropper closure only include:

- Yes
- No

Specifying nothing will be interpreted as “No”.

```
<DropperClosure>Yes</DropperClosure>
```

3.11.21 The <PushPullClosure> element

Required element: No

Possible specifications regarding the push-pull closure only include:

- Yes
- No

Specifying nothing will be interpreted as “No”.

```
< PushPullClosure>Yes</ PushPullClosure>
```

3.11.22 The <MarketedFrom> element

Required element: No

Here, a date may be specified using the YYYY-MM-DD format.
(YYYY = four-digit year, MM = month, DD = day)

```
<MarketedFrom>2007-01-27</MarketedFrom>
```

3.11.23 The <MarketedUntil> element

Required element: No

Here, a date may be specified using the YYYY-MM-DD format.
(YYYY = four-digit year, MM = month, DD = day)

```
<MarketedUntil>2012-12-31</MarketedUntil>
```

3.11.24 The <SDSheet> element

Required element: No

Here, a safety data sheet (SD Sheet) file name may be indicated. This file must be submitted together with the XML file.

```
<SDSheet>SD-Sheet-Product-ABC.pdf</SDSheet>
```

3.11.25 The <Label> element

Required element: No

Here, the name of a file containing a picture of the label may be given. This file must be submitted together with the XML file.

```
<Label>Label-Product-ABC.jpg</Label>
```

An arbitrary number of <Label> elements may be given for one product.

3.11.26 The <Remarks> element

Required element: No

Here, an arbitrary text may be given.

```
<Remarks>Sample Remark</Remarks>
```

3.12 Explicit specification of <None>

If a piece of information is not given it is either not available, or the notifier has chosen to omit it from the notification.

However, in cases where it is to be explicitly specified that the product concerned has been assigned

- no hazard symbols,
- no R Phrases,
- no S Phrases,
- no hazard pictograms,
- no H Statements,
- no P Statements,
- no EUH Statements and/or
- no CLP classification categories,

the <None/> element should be used.

```
<HazardSymbols>  
  <None/>  
</HazardSymbols>  
  
<R_Phrases>  
  <None/>  
</R_Phrases>  
  
<S_Phrases>  
  <None/>  
</S_Phrases>
```

4 Example of a minimum notification











The minimum notification presented below contains all required fields according to the definition in the XProductNotification.xsd XML schema.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- (C) BfR, 2011, generated by Product_Notification_BfR.xls, Version 1.6
-->
<ProductNotification
  xmlns = "http://www.bfr.bund.de/2010/xproductnotification"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation =
    "http://www.bfr.bund.de/2010/xproductnotification
    XProductNotification.xsd">

  <!-- Notifier and Timestamp of Notification -->
  <Notifier>1200</Notifier>
  <TimestampOfNotification>2011-10-05T08:48:21</TimestampOfNotification>

  <!-- List of products -->
  <ProductList>
    <Product>
      <TypeOfNotification>Voluntary Notification</TypeOfNotification>
      <ProductName>Sample Product</ProductName>
      <CompanyInformation>
        <Company Type="Manufacturer" BfRCompanyCode="1234"/>
      </CompanyInformation>
      <Formulation>
        <Ingredient>
          <SubstanceName>Substance 1</SubstanceName>
          <Concentration>
            <Value>0.2</Value>
          </Concentration>
        </Ingredient>
      </Formulation>
      <FurtherProductInformation>
        <FieldOfApplication>Private</FieldOfApplication>
        <IntendedUse>Cleaner</IntendedUse>
        <Packaging>Cardboard a 25 kg</Packaging>
        <LabellingUnderGefStoffV>
          <HazardSymbols>
            <None/>
          </HazardSymbols>
          <R_Phrases>
            <None/>
          </R_Phrases>
          <S_Phrases>
            <None/>
          </S_Phrases>
        </LabellingUnderGefStoffV>
      </FurtherProductInformation>
    </Product>
  </ProductList>
</ProductNotification>
```

5 Annex A: Hazard symbols

C	Corrosive	
E	Explosive	
F	Highly flammable	
F+	Extremely flammable	
N	Dangerous for the environment	
O	Oxidizing	
T	Toxic	
T+	Very toxic	
Xi	Irritant	
Xn	Harmful	

6 Annex B: R Phrases:

R1	Explosive when dry.
R2	Risk of explosion by shock, friction, fire or other source of ignition.
R3	Extreme risk of explosion by shock, friction, fire or other source of ignition.
R4	Forms very sensitive explosive metallic compounds
R5	Heating may cause an explosion.
R6	Explosive with or without contact with air.
R7	May cause fire.
R8	Contact with combustible material may cause fire.
R9	Explosive when mixed with combustible material.
R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R14	Reacts violently with water.
R14/15	Reacts violently with water, liberating extremely flammable gases.
R15	Contact with water liberates extremely flammable gases.
R15/29	Contact with water liberates toxic, extremely flammable gases.
R16	Explosive when mixed with oxidising substances.
R17	Spontaneously flammable in air.
R18	In use, may form flammable/explosive vapour-air mixture.
R19	May form explosive peroxides.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R20/22	Harmful by inhalation and if swallowed.
R21	Harmful in contact with skin.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R23/24	Toxic by inhalation and in contact with skin.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R24	Toxic in contact with skin.
R24/25	Toxic in contact with skin and if swallowed.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
R26/27	Very toxic by inhalation and in contact with skin.
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
R26/28	Very toxic by inhalation and if swallowed.
R27	Very toxic in contact with skin.
R27/28	Very toxic in contact with skin and if swallowed.
R28	Very toxic if swallowed.
R29	Contact with water liberates toxic gas.
R30	Can become highly flammable in use.
R31	Contact with acids liberates toxic gas.
R32	Contact with acids liberates very toxic gas.

R33	Danger of cumulative effects.
R34	Causes burns.
R35	Causes severe burns.
R36	Irritating to eyes.
R36/37	Irritating to eyes and respiratory system.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R39	Danger of very serious irreversible effects.
R39/23	Toxic: danger of very serious irreversible effects through inhalation.
R39/23/24	Toxic: danger of very serious irreversible effects through inhalation and in contact with skin.
R39/23/24/ 25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R39/23/25	Toxic: danger of very serious irreversible effects through inhalation and if swallowed.
R39/24	Toxic: danger of very serious irreversible effects in contact with skin.
R39/24/25	Toxic: danger of very serious irreversible effects in contact with skin and if swallowed.
R39/25	Toxic: danger of very serious irreversible effects if swallowed.
R39/26	Very toxic: danger of very serious irreversible effects through inhalation.
R39/26/27	Very toxic: danger of very serious irreversible effects through inhalation and in contact with skin.
R39/26/27/ 28	Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R39/26/28	Very toxic: danger of very serious irreversible effects through inhalation and if swallowed.
R39/27	Very toxic: danger of very serious irreversible effects in contact with skin.
R39/27/28	Very toxic: danger of very serious irreversible effects in contact with skin and if swallowed.
R39/28	Very toxic: danger of very serious irreversible effects if swallowed.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to the eyes.
R42	May cause sensitisation by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R44	Risk of explosion if heated under confinement.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R47	May cause birth defects.
R48	Danger of serious damage to health by prolonged exposure.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/20/21	Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
R48/20/21/ 22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R48/21	Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
R48/21/22	Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.










R48/23/24	Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R48/23/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R48/24	Toxic: danger of serious damage to health by prolonged exposure in contact with skin.
R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
R48/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R49	May cause cancer by inhalation.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51	Toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R54	Toxic to flora.
R55	Toxic to fauna.
R56	Toxic to soil organisms.
R57	Toxic to bees.
R58	May cause long-term adverse effects in the environment.
R59	Dangerous to the ozone layer.
R60	May impair fertility.
R61	May cause harm to the unborn child.
R62	Risk of impaired fertility.
R63	Possible risk of harm to the unborn child.
R64	May cause harm to breastfed babies.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R68	Possible risk of irreversible effects.
R68/20	Harmful: possible risk of irreversible effects through inhalation.
R68/20/21	Harmful: possible risk of irreversible effects through inhalation and in contact with skin.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
R68/20/22	Harmful: possible risk of irreversible effects through inhalation and if swallowed.
R68/21	Harmful: possible risk of irreversible effects in contact with skin.
R68/21/22	Harmful: possible risk of irreversible effects in contact with skin and if swallowed.
R68/22	Harmful: possible risk of irreversible effects if swallowed.

7 Annex C: S Phrases

S1	Keep locked up.
S1/2	Keep locked up and out of the reach of children.
S2	Keep out of the reach of children.
S3	Keep in a cool place.
S3/7	Keep container tightly closed in a cool place.
S3/7/9	Keep container tightly closed in a cool, well-ventilated place.
S3/9	Keep container in a cool, well-ventilated place.
S3/9/14	Keep in a cool, well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer).
S3/9/14/49	Keep only in the original container in a cool, well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer).
S3/9/49	Keep only in the original container in a cool well-ventilated place.
S3/14	Keep in a cool place away from ... (incompatible materials to be indicated by the manufacturer).
S4	Keep away from living quarters.
S5	Keep contents under ... (appropriate liquid to be specified by the manufacturer).
S6	Keep under ... (inert gas to be specified by the manufacturer).
S7	Keep container tightly closed.
S7/8	Keep container tightly closed and dry.
S7/9	Keep container tightly closed and in a cool, well-ventilated place.
S7/47	Keep container tightly closed and at temperature not exceeding ... °C (to be specified by the manufacturer).
S8	Keep container dry.
S9	Keep container in a well-ventilated place.
S12	Do not keep the container sealed.
S13	Keep away from food, drink and animal feedingstuffs.
S14	Keep away from ... (incompatible materials to be indicated by the manufacturer).
S15	Keep away from heat.
S16	Keep away from sources of ignition - No smoking.
S17	Keep away from combustible material.
S18	Handle and open container with care.
S20	When using do not eat or drink.
S20/21	When using do not eat, drink or smoke.
S21	When using do not smoke.
S22	Do not breathe dust.
S23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
S24	Avoid contact with skin.
S24/25	Avoid contact with skin and eyes.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27	Take off immediately all contaminated clothing.
S27/28	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap... (to be specified by the manufacturer).
S28	After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
S29	Do not empty into drains.
S29/35	Do not empty into drains. This material and its container must be disposed of in a safe way.
S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S30	Never add water to this product.
S33	Take precautionary measures against static discharges.
S35	This material and its container must be disposed of in a safe way.
S36	Wear suitable protective clothing.
S36/37	Wear suitable protective clothing and gloves.
S36/37/ 39	Wear suitable protective clothing, gloves and eye/face protection.
S36/39	Wear suitable protective clothing and eye/face protection.
S37	Wear suitable gloves.
S37/39	Wear suitable gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S39	Wear eye/face protection.
S40	To clean the floor and all objects contaminated by this material use ... (to be specified by the manufacturer).
S41	In case of fire and/or explosion do not breathe fumes.
S42	During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer).
S43	In case of fire, use ... (indicate in the space the precise type of fire-fighting equipment. If water increases risk, add - 'Never use water').
S45	In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible.)
S46	If swallowed, seek medical advice immediately and show this container or label.
S47	Keep at temperature not exceeding ... °C (to be specified by the manufacturer).
S47/49	Keep only in the original container at temperature not exceeding ... °C (to be specified by the manufacturer).
S48	Keep wetted with ... (appropriate material to be specified by the manufacturer).
S49	Keep only in the original container.
S50	Do not mix with ... (to be specified by the manufacturer).
S51	Use only in well-ventilated areas.
S52	Not recommended for interior use on large surface areas.
S53	Avoid exposure - obtain special instructions before use.
S56	Dispose of this material and its container at hazardous or special waste collection point.
S57	Use appropriate container to avoid environmental contamination.
S59	Refer to manufacturer/supplier for information on recovery/recycling.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions / Safety data sheets.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

8 Annex D: CLP Hazard pictograms

GHS01	Exploding bomb	
GHS02	Flame	
GHS03	Flame over circle	
GHS04	Gas cylinder	
GHS05	Corrosion	
GHS06	Skull and crossbones	
GHS07	Exclamation mark	
GHS08	Health hazard	
GHS09	Environment	

9 Annex E: CLP H Statements (hazard statements)

H200	Unstable explosive.
H201	Explosive; mass explosion hazard.
H202	Explosive; severe projection hazard.
H203	Explosive; fire, blast or projection hazard.
H204	Fire or projection hazard.
H205	May mass explode in fire.
H220	Extremely flammable gas.
H221	Flammable gas.
H222	Extremely flammable aerosol.
H223	Flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H229	Pressurised container: May burst if heated.
H230	May react explosively even in the absence of air.
H231	May react explosively even in the absence of air at elevated pressure and/or temperature.
H240	Heating may cause an explosion.
H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H250	Catches fire spontaneously if exposed to air.
H251	Self-heating: may catch fire.
H252	Self-heating in large quantities; may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H261	In contact with water releases flammable gases.
H270	May cause or intensify fire; oxidiser.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H341	Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H350	May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H350i	May cause cancer by inhalation.
H351	Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H360	May damage fertility or the unborn child <state specific effect if known > <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H360F	May damage fertility.
H360D	May damage the unborn child.
H360FD	May damage fertility. May cause harm to the unborn child.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H360Df	May damage the unborn child. Kann vermutlich die Fruchtbarkeit beeinträchtigen.
H361	Suspected of damaging fertility or the unborn child <state specific effect if known > <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H361f	Suspected of damaging fertility.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H362	May cause harm to breastfed children.
H370	Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H371	May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H372	Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H300 + H310	Fatal if swallowed or in contact with skin
H300 + H330	Fatal if swallowed or if inhaled
H310 + H330	Fatal in contact with skin or if inhaled
H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled
H301 + H311	Toxic if swallowed or in contact with skin
H301 + H331	Toxic if swallowed or if inhaled
H311 + H331	Toxic in contact with skin or if inhaled
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H302 + H312	Harmful if swallowed or in contact with skin
H302 + H332	Harmful if swallowed or if inhaled
H312 + H332	Harmful in contact with skin or if inhaled
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
H420	Harms public health and the environment by destroying ozone in the upper atmosphere

10 Annex F: CLP P Statements (precautionary statements)

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of the reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P220	Keep away from clothing and other combustible materials.
P222	Do not allow contact with air.
P223	Do not allow contact with water.
P230	Keep wetted with...
P231	Handle and store contents under inert gas/...
P232	Protect from moisture.
P233	Keep container tightly closed.
P234	Keep only in original packaging.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P244	Keep valves and fittings free from oil and grease.
P250	Do not subject to grinding/shock/friction/...
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P263	Avoid contact during pregnancy and while nursing.
P264	Wash... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P282	Wear cold insulating gloves and either face shield or eye protection.
P283	Wear fire resistant or flame retardant clothing.
P284	[In case of inadequate ventilation] wear respiratory protection.
P231 + P232	Handle and store contents under inert gas/... Protect from moisture.
P301	IF SWALLOWED:
P302	IF ON SKIN:
P303	IF ON SKIN (or hair):
P304	IF INHALED:
P305	IF IN EYES:
P306	IF ON CLOTHING:
P308	IF exposed or concerned:
P310	Immediately call a POISON CENTER/doctor/...
P311	Call a POISON CENTER/doctor/...
P312	Call a POISON CENTER/doctor/... if you feel unwell.

P313	Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P315	Get immediate medical advice/attention.
P320	Specific treatment is urgent (see ... on this label).
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P332	If skin irritation occurs:
P333	If skin irritation or rash occurs:
P334	Immerse in cool water [or wrap in wet bandages].
P335	Brush off loose particles from skin.
P336	Thaw frosted parts with lukewarm water. Do not rub affected area.
P337	If eye irritation persists:
P338	Remove contact lenses if present and easy to do. Continue rinsing.
P340	Remove person to fresh air and keep comfortable for breathing.
P342	If experiencing respiratory symptoms:
P351	Rinse continuously with water for several minutes.
P352	Wash with plenty of water/...
P353	Rinse skin with water [or shower].
P360	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P361	Take off immediately all contaminated clothing.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P364	And wash it before reuse.
P370	In case of fire:
P371	In case of major fire and large quantities:
P372	Explosion risk.
P373	DO NOT fight fire when fire reaches explosives.
P375	Fight fire remotely due to the risk of explosion.
P376	Stop leak if safe to do so.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P378	Use... to extinguish.
P380	Evacuate area.
P381	In case of leakage, eliminate all ignition sources.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P334	IF ON SKIN: Immerse in cool water or wrap in wet bandages.
P302 + P335 + P334	IF ON SKIN: Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
P302 + P352	IF ON SKIN: Wash with plenty of water/...
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P306 + P360	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P308 + P311	IF exposed or concerned: Call a POISON CENTER/doctor/...
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P336 + P315	Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P372 + P380 + P373	In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.
P370 + P376	In case of fire: Stop leak if safe to do so.
P370 + P378	In case of fire: Use... to extinguish.
P370 + P380 + P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P370 + P380 + P375 + P378	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use ... to extinguish].
P371 + P380 + P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
P401	Store in accordance with....
P402	Store in a dry place.
P403	Store in a well-ventilated place.
P404	Store in a closed container.
P405	Store locked up.
P406	Store in a corrosion resistant/... container with a resistant inner liner.
P407	Maintain air gap between stacks or pallets.
P410	Protect from sunlight.
P411	Store at temperatures not exceeding...°C/...°F.
P412	Do not expose to temperatures exceeding 50 °C/122 °F.
P413	Store bulk masses greater than... kg at temperatures not exceeding...°C.
P420	Store separately.
P402 + P404	Store in a dry place. Store in a closed container.
P403 + P233	Store in a well ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P410 + P403	Protect from sunlight. Store in a well ventilated place.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to ...
P502	Refer to manufacturer or supplier for information on recovery or recycling.

11 Annex G: CLP EUH Statements (supplemental hazard information)

EUH 001	Explosive when dry.
EUH 014	Reacts violently with water.
EUH 018	In use, may form flammable/explosive vapour-air mixture.
EUH 019	May form explosive peroxides.
EUH 044	Risk of explosion if heated under confinement.
EUH 029	Contact with water liberates toxic gas.
EUH 031	Contact with acids liberates toxic gas.
EUH 032	Contact with acids liberates very toxic gas.
EUH 066	Repeated exposure may cause skin dryness or cracking.
EUH 070	Toxic by eye contact.
EUH 071	Corrosive to the respiratory tract.
EUH 201	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
EUH 201A	Warning! Contains lead.
EUH 202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUH 203	Contains chromium (VI). May produce an allergic reaction.
EUH 204	Contains isocyanates. May produce an allergic reaction.
EUH 205	Contains epoxy constituents. May produce an allergic reaction.
EUH 206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
EUH 207	Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
EUH 208	Contains <name of sensitising substance>. May produce an allergic reaction.
EUH 209	Can become highly flammable in use.
EUH 209A	Can become flammable in use.
EUH 210	Safety data sheet available on request.
EUH 401	To avoid risks to human health and the environment, comply with the instructions for use.

12 Annex H: CLP classification categories

Unst. Expl.	Explosives
Expl. 1.1	Explosives
Expl. 1.2	Explosives
Expl. 1.3	Explosives
Expl. 1.4	Explosives
Expl. 1.5	Explosives
Expl. 1.6	Explosives
Flam. Gas 1	Flammable Gases
Flam. Gas 2	Flammable Gases
Chem. Unst. Gas A	Flammable Gases
Chem. Unst. Gas B	Flammable Gases
Aerosol 1	Flammable Aerosols
Aerosol 2	Flammable Aerosols
Aerosol 3	Flammable Aerosols
Ox. Gas 1	Oxidising Gases
Press. Gas	Gases under Pressure
Press. Gas (Comp.)	Gases under Pressure
Press. Gas (Liq.)	Gases under Pressure
Press. Gas (Ref. Liq.)	Gases under Pressure
Press. Gas (Diss.)	Gases under Pressure
Flam. Liq. 1	Flammable Liquids
Flam. Liq. 2	Flammable Liquids
Flam. Liq. 3	Flammable Liquids
Flam. Sol. 1	Flammable Solids
Flam. Sol. 2	Flammable Solids
Self-react. A	Self-reactive substances and mixtures
Self-react. B	Self-reactive substances and mixtures
Self-react. C	Self-reactive substances and mixtures
Self-react. D	Self-reactive substances and mixtures
Self-react. CD	Self-reactive substances and mixtures
Self-react. E	Self-reactive substances and mixtures
Self-react. F	Self-reactive substances and mixtures
Self-react. EF	Self-reactive substances and mixtures
Self-react. G	Self-reactive substances and mixtures
Pyr. Liq. 1	Pyrophoric Liquids
Pyr. Sol. 1	Pyrophoric Solids
Self-heat. 1	Self-heating substances and mixtures
Self-heat. 2	Self-heating substances and mixtures
Water-react. 1	Substances or mixtures which in contact with water emit flammable gases
Water-react. 2	Substances or mixtures which in contact with water emit flammable gases
Water-react. 3	Substances or mixtures which in contact with water emit flammable gases
Ox. Liq. 1	Oxidising Liquids
Ox. Liq. 2	Oxidising Liquids
Ox. Liq. 3	Oxidising Liquids
Ox. Sol. 1	Oxidising Solids
Ox. Sol. 2	Oxidising Solids
Ox. Sol. 3	Oxidising Solids

Org. Perox. A	Organic Peroxides
Org. Perox. B	Organic Peroxides
Org. Perox. C	Organic Peroxides
Org. Perox. D	Organic Peroxides
Org. Perox. CD	Organic Peroxides
Org. Perox. E	Organic Peroxides
Org. Perox. F	Organic Peroxides
Org. Perox. EF	Organic Peroxides
Org. Perox. G	Organic Peroxides
Met. Corr. 1	Corrosive to metals
Acute Tox. 1	Acute Toxicity
Acute Tox. 2	Acute Toxicity
Acute Tox. 3	Acute Toxicity
Acute Tox. 4	Acute Toxicity
Skin Corr. 1	Skin corrosion/irritation
Skin Corr. 1A	Skin corrosion/irritation
Skin Corr. 1B	Skin corrosion/irritation
Skin Corr. 1C	Skin corrosion/irritation
Skin Irr. 2	Skin corrosion/irritation
Eye Dam. 1	Serious eye damage/ eye irritation.
Eye Irr. 2	Serious eye damage/ eye irritation.
Resp. Sens. 1	Sensitisation of the respiratory tract or the skin
Resp. Sens. 1A	Sensitisation of the respiratory tract or the skin
Resp. Sens. 1B	Sensitisation of the respiratory tract or the skin
Skin. Sens. 1	Sensitisation of the respiratory tract or the skin
Skin. Sens. 1A	Sensitisation of the respiratory tract or the skin
Skin. Sens. 1B	Sensitisation of the respiratory tract or the skin
Muta. 1A	Germ cell mutagenicity
Muta. 1B	Germ cell mutagenicity
Muta. 2	Germ cell mutagenicity
Carc. 1A	Carcinogenicity
Carc. 1B	Carcinogenicity
Carc. 2	Carcinogenicity
Repr. 1A	Reproductive toxicity
Repr. 1B	Reproductive toxicity
Repr. 2	Reproductive toxicity
Lact.	Reproductive toxicity
STOT SE 1	Specific target organ toxicity (single exposure)
STOT SE 2	Specific target organ toxicity (single exposure)
STOT SE 3	Specific target organ toxicity (single exposure)
STOT RE 1	Specific target organ toxicity (repeated exposure)
STOT RE 2	Specific target organ toxicity (repeated exposure)
Asp. Tox. 1	Aspiration Toxicity
Aquatic Acute 1	Hazardous to the aquatic environment
Aquatic Chronic 1	Hazardous to the aquatic environment
Aquatic Chronic 2	Hazardous to the aquatic environment
Aquatic Chronic 3	Hazardous to the aquatic environment
Aquatic Chronic 4	Hazardous to the aquatic environment
Ozone 1	Hazardous to the ozone layer

13 Annex I: Categories of use

Level 1	Level 2
Vehicle cleaning/vehicle care product	
	Cleaner for construction vehicles, concrete remover, cement patina remover
	Cleaner for boats (includes ship cleaners)
	Cleaner for brakes
	Protective-coating remover
	Interior cleaner
	Vehicle cleaner (passenger cars, trucks, busses, rail vehicles)
	Rim cleaner (includes wheel cleaners)
	Aircraft cleaner
	High-pressure, steam-jet cleaner
	Insect remover
	Paintwork care product
	Solvent cleaner, cold cleaner
	Engine cleaner
	Tarpaulin cleaner, hood cleaner
	Rust remover, rust solvents
	Shampoo (cars, trucks, busses, rail vehicles)
	Shampoo for automatic car-washes
	Windscreen cleaner (includes windscreen cleaners with anti-freeze)
	Tar remover
	Drying aid
	Underbody cleaner
	Preservative agent (paintwork protection products, underbody sealing product, preservative agent for boats etc.)
	Cleaner for vehicle wash facilities
	Cleaner for two-wheel vehicles
	Coating cleaner
Facade cleaner	
	Stripper
	Biological-growth remover
	Eloxal, aluminium cleaner
	Joint cleaner
	Graffiti remover
	Limestone cleaner, marble cleaner
	Nitre remover
	Cleaner for stone facades (including for tiles, clinker, brick)
	Cement patina remover (including cement remover)
	Graffiti-proofing products (as far as washable with graffiti remover)
Floor cleaner / floor polish	
	Alcohol-based cleaner
	Floor wax, liquid floor wax
	Cleaner
	Disinfectant-cleaner (Including for carpets)
	Floor impregnation product (for all floor types)
	Cleaner for routine floor cleaning
	Full-power cleaner
	Solvent-based cleaner

Level 1	Level 2
	Oil stain remover
	Cleaner for PVC/plastic flooring (including for gymnasium floors)
	Cleaner used in cleaning machines
	Self-shining emulsion
	Soap-, tenside-based cleaner
	Spray-extraction product
	Carpet stain remover
	Carpet impregnation product (includes antistats)
	Carpet, upholstery cleaner (includes shampoos)
	Floor cleaner (in bucket)
	Floor oils
	Marble polish
	Marble cleaner
	Parquet floor polish
	Parquet floor cleaner
	Polish for stone/ ceramic floors
	Cleaner for stone/ ceramic floors
Graphic trades	
	Washing product for letterpress printing plates
	Printing-roll cleaner
	Solvent for printing inks
	Damper-roller cleaner
	Rubber blanket detergent
	Matrix cleaner
	Cleaner for offset machines
	Cleaner for photographic developer tanks
	Screen cleaner (includes screen-printing cleaners and screen decoaters)
	Roller cleaner
Industrial cleaner (food/drinks industry)	
	Alkaline cleaner
	All-purpose cleaner
	Oven, grill cleaner
	Disinfectant-cleaner
	Disinfectant
	Stainless-steel cleaner
	Vat, tank cleaner
	Grease, protein solvent (includes milk-stone solvents, dairy cleaners)
	Bottle cleaner (also glass jars)
	Tile cleaner
	High-pressure, steam-jet cleaner
	Smoke resin remover
	Microorganism-, enzyme-based cleaner
	Cleaner for meat-, fish-processing undertakings
	Acid-based cleaner
	Spray cleaner
	Conveyor-belt cleaner
	Circulation, CIP, immersion cleaner
	Descaling agent
	Cleaning booster, free of soap/surfactant

Level 1	Level 2
	Cleaning booster, with soap/surfactant
	Water softener
Industrial cleaner (metal)	
	Alkaline cleaner
	Electrolytic cleaner (includes electrolytic degreasers)
	Eloxal, aluminium cleaner
	Degreaser
	Grinding agent (includes polishes)
	High-pressure, steam-jet cleaner
	Solvent cleaner, cold cleaner
	Metal cleaner
	Rust remover
	Neutral cleaner
	Passivating cleaner
	Phosphating agent
	Cleaner for electronic parts
	Acid-based cleaner
	System cleaner
	Spray cleaner
	Immersion cleaner
	Ultrasonic cleaner
	Coating removers, coating removal additives, hot-decoating products, paint removers
	Coating cleaner
	Cleaning booster, additive free of soap/surfactant
	Cleaning booster, additive with soap/surfactant
	Inhibitor or corrosion-protection product free of soap/surfactant (for stainless steel, copper, etc. as far as used in the cleaning process)
	Inhibitor or corrosion-protection with soap/surfactant (for stainless steel, copper, etc. as far as used in the cleaning process)
Nuclear industry	
	Decontamination cleaner
	Decontamination detergent for clothing/textiles in nuclear power plants
	Disinfectant
	Fabric softener for clothing worn in nuclear power plants
Leather/fur industry	
	Leather/fur washing agent
	Wetting agent (as far as intended for cleaning)
Paper industry	
Cleaning products for health services	
	All-purpose cleaner
	Disinfectant-cleaner
	Disinfectant in-bucket cleaner
	Cleaner for bedpans
	Cleaner for medical devices and instruments
	Ultrasonic cleaner for medical instruments
Commercial cleaner	
	Alkaline cleaner
	Alcohol-based cleaner
	All-purpose cleaner

Level 1	Level 2
	Oven, grill cleaner
	Cutlery cleaner, silver cleaner
	Beerscale solvent or beer slime solvents
	Disinfectant
	Disinfectant-cleaner
	Stainless-steel polish, metal polish
	Stainless-steel cleaner, metal cleaner
	Descaler for machines and kitchen appliances
	Grease, protein solvent
	Cleaner for fitness equipment
	Tile cleaner
	Glass cleaner (including for use in glass industry)
	Hand dishwashing detergent
	Rinse aid (includes drying aids)
	Plastic cleaner, rubber cleaners
	Solvent-based cleaner
	Machine dishwashing detergent
	Smoke resin remover
	Cleaner for machines and kitchen appliances
	Cleaner for drinking water containers, for conduits for drinks, etc.
	Laboratory cleaner
	Cleaning booster (includes additives)
	Drain cleaner, pipe cleaner
	Acid-based cleaner
	Scourer
	Mildew remover
	Soap-based cleaner
	Ultrasonic cleaner
	Cleaning booster (includes additives) with soap/surfactant
	Cleaner for industrial facilities
Household cleaning product	
	All-purpose cleaner
	Oven, grill cleaner
	Disinfectant-cleaner
	Descaler for kitchen appliances
	Glass cleaner
	Hand dishwashing detergent
	Rinse aid (includes drying aids)
	Machine dishwashing detergent
	Cleaner for machines and kitchen appliances
	Drain cleaner, pipe cleaner
	Rust remover (includes rust solvents)
	Acid-based cleaner
	Scourer
	Mildew remover
	Soap-based cleaner
	Products if soaked with cleaning agent
	Stainless-steel polish, metal polish
	Stainless-steel cleaner, metal cleaner

Level 1	Level 2
	Plastic polish
	Plastic cleaner
Cleaning product for sanitary area	
	Bathroom cleaner
	Biological-growth remover
	Disinfectant-cleaner
	Tile cleaner
	Cleaner for swimming pools (also for saunas and shower rooms)
	Drain cleaner, pipe cleaner
	Sanitary cleaner
	Toilet freshener
	WC in-the-bowl descaling block
	WC cleaner and rim dispensers
Other cleaners	
	Stripper
	Alcohol-based cleaner
	All-purpose cleaner (universal cleaner)
	Construction machinery cleaner
	Concrete remover, gypsum remover, cement patina remover
	Screen cleaner, computer cleaner
	Optical glass cleaner, contact lense cleaner
	Well cleaner
	Disinfectant-cleaner
	Disinfectant
	Degreaser, grease solvent
	Descaling agent
	Defoamer
	Stain remover
	Tile cleaner
	Glass cleaner (also glass-ceramics)
	Tombstone cleaner
	Graffiti remover
	Boiler cleaner
	High-pressure, steam-jet cleaner
	Wood cleaner
	Settling-tank cleaner, sewage treatment plant cleaner
	Adhesives remover, label remover
	Cooling-cycle cleaner
	Plastic cleaner, paint cleaner
	Plastic polish, paint polish
	Leather cleaning product
	Solvent cleaner, cold cleaner
	Metal cleaner
	Paint-brush cleaner
	Upholstery cleaner
	Rust remover
	Acid-based cleaner
	Scourer
	Soap-based cleaner

Level 1	Level 2
	Spray cleaner
	Animal shampoo (animal cleaner)
	Wash- and cleaning products for contaminated floors
	Water-softening agent (only if it assists a cleaning process)
	Workshop cleaner
	Wood polish
	Leather care products
	Equipment polish
	Equipment cleaner
	Cleaning booster, free of soap/surfactant
	Cleaning booster, with soap/surfactant
Textile industry	
	Scouring aid, scouring agent
	Dispersing agent, dispersing aid, Emulsifying agent and Wetting agent (only if it assists a cleaning process)
	Desizing agent
	Aid for removing printing thickener
	Washing agent
Commercial textile cleaner - wet cleaning procedure	
	(Completely) built detergent (with and without bleach)
	Anti-foaming agent
	Bleach
	Basic laundry detergent, laundry detergent for coloureds
	Enzymes
	Disinfectant laundry detergent (includes disinfectants)
	Spotting agent, stain remover
	Laundry detergent for delicates
	Water-proofing product (for textiles and other washable parts)
	Clear-wash product
	Heavy-duty detergent
	Pre-wash product
	Laundry finish (includes antistats)
	Laundry alkali
	Detergent booster
	Water softener
	Fabric softener
	Laundry detergent for wool, laundry detergent for feathers
Domestic textile cleaner	
	Bleach
	Basic laundry detergent, laundry detergent for coloureds
	Disinfectant laundry detergent (includes disinfectants)
	Decolorant
	Enzymes (including for component systems, includes gall soaps of all types)
	Laundry detergent for delicates
	Stain remover
	Manual-wash detergent
	Water-proofing product (for textiles and other washable parts)
	Awning, tent cleaner
	Heavy-duty detergent

Level 1	Level 2
	Pre-wash product
	Laundry finish (includes antistats, laundry starches, ironing aids)
	Detergent booster
	Water softener
	Fabric softener
	Laundry detergent for wool, laundry detergent for feathers
	Special detergent for domestic textile cleaning
Livestock farming	
	Disinfectant
	Disinfectant-cleaner
	Udder cleaner
	Cleaner for milking machines, milking installations
	Byre cleaner
	Animal washing product
Commercial textile cleaner with solvents in closed facilities	
	Brushing agents
	Spotting agents for solvent use
	Solvents for cleaning
	Cleaning booster, with surfactant

14 Annex J: Biocide categories

No. Level 1	No. Level 2	No. Level 3	Category Name
1			Disinfectants
	1		Human hygiene
	2		Disinfectants and algacides not intended for direct application to humans or animals
	2.01		Disinfectants for medical equipment, biocidal products for accommodation for man or in industrial areas
	2.02		Biocidal products to be used in swimming pools etc.
	2.03		Biocidal products to be used in air-conditioning system
	2.04		Biocidal products for chemical toilets, treatment of waste water or treatment of hospital waste
	2.05		Other biocidal products within product type 2
	3		Veterinary hygiene
	4		Food and feed area
	5		Drinking water
2			Preservatives
	6		Preservatives for products during storage
	6.01		Preservatives for detergents
	6.02		Other in-can preservatives
	7		Film preservatives
	8		Wood preservatives
	8.01		Pre-treatment in industrial premises (pressure and vacuum impregnation and dipping)
	8.02		Other wood preservatives
	9		Fibre, leather, rubber and polymerised materials preservatives
	9.01		Preservatives for textiles and leather
	9.02		Preservatives for paper
	9.03		Preservatives for rubber and polymerised materials and other biocidal products covered by product type 09
	10		Construction material preservatives
	11		Preservatives for liquid-cooling and processing systems
	11.01		Preservatives used in once-through systems
	11.02		Preservatives used in recirculating systems
	12		Slimicides
	12.01		Slimicides for paperpulp
	12.02		Slimicides for mineral oil extraction
	12.03		Other slimicides
	13		Working or cutting fluid preservatives
3			Pest control
	14		Rodenticides
	15		Avicides
	16		Molluscicides, vermicides and products to control other invertebrates
	17		Piscicides
	18		Insecticides, acaricides and products to control other arthropods
	18.01		Insecticides, acaricides and products to control other arthropods used by professionals
	18.02		Insecticides, acaricides and products to control other arthropods used by non-professionals
	19		Repellents and attractants
	19.01		Repellents applied directly on human or animal skin
	19.02		Attractants and repellents not applied directly on human or animal skin

	20	Control of other vertebrates
4		Other biocidal products
	21	Antifouling products
	22	Embalming and taxidermist fluids