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Approved by: Environmental manager

Substitution investigation

In accordance with the Environmental Code's substitution principle (SFS 1998:808, Chapter 2, § 4) chemical products that are hazardous to health and the environment are to be substituted, by substances that are less hazardous, through active product selection and substitution. The law requires the phasing out of products consisting of or containing:

- CMR substances (carcinogenic, mutagenic or toxic to reproduction; AFS 2023:10, Chapter 8 § 14)
- PBT substances (persistent, bio-accumulative and toxic) and vPvB substances (very persistent and very bio-accumulative)
- PMT substances (persistent, mobile and toxic) or vPvM substances (very persistent and very mobile)
- hazardous metals such as: cadmium (Cd), mercury (Hg) or lead (Pb)
- allergenic substances
- endocrine substances that disrupt human health
- endocrine substances that disrupt the environment
- ozone-depleting substances.

In accordance with the Swedish Work Environment Authority's provision (AFS 2023:10, Chapter 8 § 14), CMR substances (Carcinogenic, Mutagenic or toxic to reproduction) are only to be handled after a documented investigation has been carried out, that shows that it is technically impossible to replace the product with a less hazardous alternative.

| 1. Workplace | |
|-------------------|---------------------|
| Department: | Section/unit/group: |
| Investigator: | Title/profession: |
| Telephone number: | Email: |

| 2. Chemical product being investigated |
|--|
| Product name: |
| Substance category: |
| <input type="checkbox"/> CMR |
| <input type="checkbox"/> PBT |
| <input type="checkbox"/> vPvB |
| <input type="checkbox"/> PMT |
| <input type="checkbox"/> vPvM |
| <input type="checkbox"/> Hazardous metal |
| <input type="checkbox"/> Allergenic substance |
| <input type="checkbox"/> Endocrine substance that disrupts human health |
| <input type="checkbox"/> Endocrine substance that disrupts the environment |
| <input type="checkbox"/> Ozone-depleting substance |
| <input type="checkbox"/> Other: |
| Application area: |
| Type of product (<i>e.g.</i> solvent, pigment): |
| Constituent/substance that requires substitution: |
| CAS number for constituent/substance: |
| Constituent content in product (%): |

3. The product's labelling and classification

Material safety data sheet enclosed.

The product's classification according to the material safety data sheet:

The product's labelling according to the material safety data sheet:

H330 Fatal if inhaled

H350 May cause cancer

H340 May cause genetic defects

H360 May damage fertility or the unborn child

H360F May damage fertility

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

H370 Causes damage to organs

H372 Causes damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H420 Harms public health and the environment by destroying ozone in the upper atmosphere

EUH380 May cause endocrine disruption in humans

EUH430 May cause endocrine disruption in the environment

Other labelling (state indicated hazards):

4. Handling

Write a short description of how you plan to handle the product:

Quantity consumed per handling:

Estimated annual consumption:

Risk for exposure via:

Inhalation: Risk description:

Ingestion: Risk description:

Contact with skin: Risk description:

Contact with eye: Risk description:

Contact with mucous membranes: Risk description:

Other: Risk description:

5. Search for an alternative product

Alternatives have been sought via:

Contacts with suppliers in the industry.

Comment:

Contacts with colleagues within your own organisation and other organisations.

Comment:

Checking the NSG substitute list
(www.vgregion.se/halsan/kemi/nsg)

Comment:

Searching SubsPort's databases (www.subsport.eu)

Comment:

| |
|--|
| <input type="checkbox"/> Searching SIN's database (Substitute it NOW!) (www.sinlist.chemsec.org/) |
| <input type="checkbox"/> The Swedish Chemical Agency's website (http://www.kemi.se/) Comment: |
| <input type="checkbox"/> Searching via Google. (Search example: using the following words: substitution, replacement, phase out, hazardous chemicals, hazardous chemicals in combination with the chemical name in question) Comment: |
| <input type="checkbox"/> Other websites. Comments: |

6. Results of the search and assessment of alternatives

An alternative product that can replace the existing product has been found:

Yes, state the product information below

Substitute product (CAS number):

Indicated hazards/risk phrases for the substitute product according to the material safety data sheet:

Date on which the current product will be replaced:

No, an alternative has not been found

Comment/explanation:

Date for a repeat investigation:

NOTE! If it is decided that a product hazardous to health or the environment is to be used, specific requirements apply. For more information see: [Substitution och reducering av hälso- och miljöfarliga produkter | HR-webben](#)

If the product is a CMR classified substance, specific requirements apply according to AFS (2023:10, Chapter 8 §§ 15 – 20). For more information see: [CMR-ämnen | HR-webben](#)

7. Decision

Existing product:

Will be replaced.

Will **not** be replaced.

Grounds for decision:

8. Signature of responsible manager

Name:

Date/Signature: