

ABC Evaluation Denmark

Kickstart

The below ABC-evaluation is made according to the Danish Environmental Protection Agency's **Guidance No. 77 (2025): Connection of Industrial Wastewater to Wastewater Utility Treatment Plants**, Danish Environmental Protection Agency – Chapter 3.7 (ABC evaluation of organic substances)

This evaluation is based on the information in MSDS: **Kickstart**, last revised the 16.02.2023, version 2.07 and preliminary calculation for the product as a **1%** application solution, in accordance with the dosage specified on the **Kickstart** label.

ABC Criteria (Guidance 2025)

According to Guidance No 77 (2025) section 3.7.2, the ABC classification is based exclusively on CLP hazard statements (H-statements):

A substance: Substances with severe and irreversible human health effects (e.g. H340, H350, H360) or very high environmental toxicity (**H400, H410**).

B substances: Substances with chronic environmental toxicity (H411, **H412**, H413).

C substances: All other substances not classified as A or B

Relevant Constituents (SDS, Section 3.2):

Substance	CAS No.	Content [%]	Relevant CLP classifications Human health hazard statement codes	ABC classification
Hydrogen peroxide	7722-84-1	15-30	H271, H302, H332, H314, H318, H335, H412	B
Acetic acid	64-19-7	5-15	H226, H314	C
Peracetic acid	79-21-0	1-5	H226, H242, H302, H312, H332, H314, H335, H400, H410	A

ABC Evaluation of Individual Substances

Hydrogen peroxide is classified as Aquatic Chronic 3 (H412). H412 is explicitly listed as a criterion for B substances in Guidance 2025 and needs to be assigned to the ABC category B. In addition, Hydrogen peroxide rapidly decomposes into water and oxygen and is not expected to bioaccumulate.

Acetic acid has no environmental hazard classification which is triggering A or B classification under the ABC system. It is not expected to fulfil the criteria for a persistent or bioaccumulative problematic organic substance. Acetic acid is therefore appropriately assigned to ABC category C.

Peracetic acid is classified as Aquatic Acute 1 (H400) and Aquatic Chronic 1 (H410). These hazard statements correspond to ABC category A according to Guidance No. 77 (2025). Peracetic acid is therefore assigned to ABC category A and represents clearly the component that determines the assessment.

Relevant Constituents at use solution of 1 % and pH 2-4

A CLP calculation performed for the 1% use solution (pH 2-4) results in an overall environmental classification of: Aquatic Chronic 2 (H411) "Toxic to aquatic life with long lasting effects." According to Guidance No. 77 (2025), H411 corresponds to ABC category B. Consequently, the use solution must be assigned to ABC category B.

Conclusion

Based on the CLP calculation for the 1% use solution, the product is classified as Aquatic Chronic 2 (H411). H411 is explicitly assigned to ABC category B under the Danish Environmental Protection Agency's Guidance No. 77 (2025).

While the concentrate contains peracetic acid (H400/H410), which individually qualifies as an A substance, the ABC assessment of the 1% use solution results in an overall ABC category B classification. Hydrogen peroxide and peracetic acid are reactive substances that rapidly decompose to oxygen, water and acetic acid. Therefore, actual environmental exposure at the point of discharge may be considerably lower than indicated by the CLP classification alone. However, these degradation characteristics do not alter the ABC classification derived from the current H-statement-based methodology.

References

<https://mst.dk/publikationer/2025/september/tilslutning-af-industrispildevand-til-spildevandsforsyningsselskabernes-spildevandsanlaeg>

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