

18 November 2015

Draft background document for sodium peroxometaborate

Document developed in the context of ECHA's seventh Recommendation for the inclusion of substances in Annex XIV

ECHA is required to regularly prioritise the substances from the Candidate List and to submit to the European Commission recommendations of substances that should be subject to authorisation. This document provides background information on the prioritisation of the substance, as well as on the determination of its draft entry in the Authorisation List (Annex XIV of the REACH Regulation). Information comprising confidential comments submitted during public consultation(s), or relating to content of registration dossiers which is of such nature that it may potentially harm the commercial interest of companies if it was disclosed, is provided in a confidential annex to this document.

Information relevant for prioritisation and/or for proposing Annex XIV entries provided during the public consultation on the inclusion of sodium peroxometaborate on the authorisation list or in the registration dossiers (as of the last day of the public consultation, i.e. 18 February 2016) will be taken into consideration when finalising the recommendation and will be reflected in an update of the present document.

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1. Identity of the substance

Chemical name: Sodium peroxometaborate
EC Number: 231-556-4
CAS Number: 7632-04-4
IUPAC Name: Sodium peroxometaborate

2. Background information for prioritisation

Priority was assessed by using the General approach for prioritisation of SVHCs for inclusion in the list of substances subject to authorisation¹. Results of the prioritisation of all substances included in the Candidate List by June 2014 and not yet included or recommended in Annex XIV of the REACH Regulation is available at

http://echa.europa.eu/documents/10162/13640/prioritisation_results_CL_substances_nov_2015_en.pdf.

2.1. Intrinsic properties

Sodium peroxometaborate was identified as a Substance of Very High Concern (SVHC) according to Article 57 (c) as it is classified in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008 as Toxic for Reproduction, Category 1B, (H360Df: "May damage the unborn child. Suspected of damaging fertility"), and was therefore included in the Candidate List for authorisation on 16 June 2014, following ECHA's decision ED/49/2014.

2.2. Volume used in the scope of authorisation

There are no registrations for sodium peroxometaborate under Regulation (EC) No 1907/2006 (REACH)².

2.3. Wide-dispersiveness of uses

There are no registrations for sodium peroxometaborate under Regulation (EC) No 1907/2006 (REACH).

During the public consultation to identify sodium peroxometaborate as SVHC (RCOM, 2014) comments were received indicating the use of the substance as laboratory chemical in scientific research and development (SRD), however this use appears to be outside the scope of authorisation.

¹ Document can be accessed at

http://echa.europa.eu/documents/10162/13640/gen_approach_svhc_prior_in_recommendations_en.pdf

² Number of registrations as of 1 June 2015

2.4. Further considerations for priority setting

Based on structural similarities it appears that sodium peroxometaborate could potentially replace other boron compounds already recommended for inclusion in Annex XIV. There is another borate substance on the Candidate List (sodium perborate; perboric acid, sodium salt) for which sodium peroxometaborate might have the potential to be used in similar applications.

2.5. Conclusions and justification

On the basis of grouping considerations sodium peroxometaborate is proposed to be prioritised for inclusion in Annex XIV.

3. Background information for the proposed Annex XIV entry

Draft Annex XIV entries were determined on the basis of the General approach for preparation of draft Annex XIV entries for substances to be included in Annex XIV³. The draft Annex XIV entries for substances included in this draft recommendation are available at http://echa.europa.eu/documents/10162/13640/7th_recom_draft_axiv_entries_en.pdf.

3.1. Latest application and sunset dates

ECHA proposes to recommend the following transitional arrangements:

Latest application date (LAD):	Date of inclusion in Annex XIV plus 21 months
Sunset date (SSD):	18 months after LAD

There is a priori no reason to deviate from the three LAD slots of 18, 21 and 24 months after inclusion in Annex XIV that are normally assigned in a recommendation. Sodium peroxometaborate has been considered to be placed in the same slot with Sodium perborate; perboric acid, sodium salt in this draft recommendation, i.e. grouped together. These two boron substances are assigned to the 2nd LAD slot. As the number of different uses of the group seems limited, it is assumed that preparation of an application for authorisation may require less time when compared with the lead compounds (proposed to be placed in the 3rd slot) due to their higher (overall) supply chain complexity.

3.2. Review period for certain uses

ECHA proposes not to include in Annex XIV any review period for sodium peroxometaborate.

³ Document can be accessed at http://echa.europa.eu/documents/10162/13640/recom_general_approach_draft_axiv_entries.pdf

3.3. Uses or categories of uses exempted from authorisation requirement

3.3.1. Exemption under Article 58(2)

ECHA proposes not to recommend exemptions for uses of sodium peroxometaborate on the basis of Article 58 (1)(e) in combination with Article 58(2) of the REACH Regulation.

3.3.2. Exemption of product and process oriented research and development (PPORD)

ECHA proposes not to include in Annex XIV any exemption from authorisation for the use of sodium peroxometaborate for PPORD.

4. Further information on uses

Sodium peroxometaborate has not been registered under REACH⁴.

According to the Annex XV report (2014), perboric acid, sodium salt (PBS)⁵ is used in chemical mixtures for bleaching and cleaning agents. According to AISE (International Association for Soaps, Detergents and Maintenance Products), 96% of the PBS used in detergent products in 1999 was used in heavy duty bleach-containing powders or tablets, and 3% in machine dishwashing detergents (powders or tablets). Further uses mentioned are denture cleansers and stain removers. According to the Annex XV report (2014) the concentrations of PBS in the detergents products and in bleaching agents are between 4 – 25 % and 5 – 50 %, respectively.

⁴ as of 1 June 2015

⁵ Part II of the Annex XV report (2014) refers to “perboric acid, sodium salt (PBS)” which covers the following EC numbers: 239-172-9, 234-390-0, 231-556-4.

5. References

Annex XV report (2014): Proposal for identification of a substance as a CMR Cat 1A or 1B, PBT, vPvB or a substance of an equivalent level of concern. Sodium peroxometaborate. Submitted by Denmark, March 2014.

<http://echa.europa.eu/documents/10162/74778154-75a8-428e-adad-0516a1189da7>

RCOM (2014): "*Responses to comments*" document. Document compiled by Denmark from the commenting period 03/03/2014 - 17/04/2014 on the proposal to identify sodium peroxometaborate as a Substance of Very High Concern.

<http://echa.europa.eu/candidate-list-table/-/substance-rev/2370/del/200/col/staticField -104/type/desc/pre/1/view>