

5 September 2018

Draft background document for lead oxide sulfate

Document developed in the context of ECHA's ninth 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, 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 lead oxide sulfate on the Authorisation List or in the registration dossiers (as of the last day of the public consultation, i.e. 5 December 2018) will be taken into consideration when finalising the recommendation and will be reflected in the final background document.

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1. Identity of the substance

Identity of the substance as provided in the Candidate List¹:

Name: Lead oxide sulfate
EC Number: 234-853-7
CAS Number: 12036-76-9

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 authorisation². Results of the prioritisation of all substances included in the Candidate List by January 2018 and not yet included or recommended in Annex XIV of the REACH Regulation is available at https://echa.europa.eu/documents/10162/13640/prioritisation_results_cl_substances_sept_2018_en.pdf.

2.1. Intrinsic properties

Lead oxide sulfate 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 1A, H360D ("May damage the unborn child")³, and was therefore included in the Candidate List for authorisation on 19 December 2012, following ECHA's decision ED/169/2012.

2.2. Volume used in the scope of authorisation

Lead oxide sulfate is according to registration data no longer manufactured and/or imported into the EU (ECHA, 2018a). Furthermore, industry has communicated to ECHA that the substance is practically in the phase-out. However, the registration status of the substance is still active, and uses in the scope of authorisation are still registered. Therefore, some use of the substance may remain in the EU.

In conclusion, the volume in the scope of authorisation is estimated to be in the range of 0 - <10 t/y.

2.3. Wide-dispersiveness of uses

Industry has informed ECHA that the substance is practically in the phase-out. However, uses of the substance at industrial sites in the scope of authorisation (in the production of coatings and inks and application of coatings and inks for mirror backing) are still registered.

¹ For further information please refer to the Candidate List and the respective support document at <https://www.echa.europa.eu/candidate-list-table>.

² Document can be accessed at http://echa.europa.eu/documents/10162/13640/gen_approach_svhc_prior_in_recommendations_en.pdf

³ The full hazard statement of the Annex VI (CLP) entry for lead compounds with the exception of those specified elsewhere in this Annex (index number 082-001-00-6) is H360Df ("May damage the unborn child. Suspected of damaging fertility.").

Furthermore, according to registration data the substance is used in articles (mirror coatings). However, it appears that the release of the substance from these articles might be negligible.

2.4. Further considerations for priority setting

Lead substances that can be used as stabilisers are considered as a group. Therefore lead oxide sulfate is grouped with dioxobis(stearato)trilead; fatty acids, C16-18, lead salts; trilead dioxide phosphonate; [phthalato(2-)]dioxotrilead; sulfurous acid, lead salt, dibasic and trilead bis(carbonate) dihydroxide.

Although the use as stabiliser is no longer reported in registration dossiers of lead oxide sulfate that use was reported in previous dossier versions. The substance is also included in the restriction proposal on lead compounds used as stabilisers in PVC that ECHA sent to the Commission⁴ in April 2018 (ECHA, 2018b), thereby indicating that lead oxide sulfate could potentially replace other lead stabilisers in some of their uses.

2.5. Conclusion

Verbal descriptions and scores			Total score (= IP + V + WDU)	Further considerations
Inherent properties (IP)	Volume (V)	Wide dispersiveness of uses (WDU)		
Lead oxide sulfate is classified as toxic for reproduction 1A meeting the criteria of Article 57(c) Score: 1	The amount of lead oxide sulfate used in the scope of authorisation is in the range of 0 - <10 t/y Score: 0-3	Lead oxide sulfate is potentially used at industrial sites. Score: 0-5	1-9 (middle value 5)	Grouping with other lead substances used as stabilisers

Conclusion

On the basis of the prioritisation criteria further strengthened by grouping considerations, lead oxide sulfate receives priority among the substances on the Candidate List (see link to the prioritisation results above). Therefore, it is proposed to prioritise lead oxide sulfate for inclusion in Annex XIV.

⁴ The combined opinion of RAC and SEAC and supporting documentation were sent to the Commission.

3. Background information for the proposed Annex XIV entry

3.1. Latest application and sunset dates

ECHA proposes the following transitional arrangements:

Latest application date (LAD):	Date of inclusion in Annex XIV plus 18, 21 or 24 months
Sunset date:	18 months after LAD

ECHA will make the final LAD allocation when finalising the recommendation and will use all available relevant information including that received in the public consultation. ECHA will apply the Annex XIV entries approach⁵ and the criteria described in the implementation document⁶. According to these documents, substances for which the available information indicates a relatively high number of uses and/or complex supply chain(s) are allocated to the "later" LAD slots.

A summary of the information currently available is provided in Annex I.

The time needed to prepare an authorisation application of sufficient quality has been estimated to require 18 months in standard cases. When setting the LADs ECHA has also to take into account the anticipated workload of ECHA's Committees and Secretariat to process authorisation applications. This is done by allocating the substances proposed to be included in the final recommendation in slots, normally 3, and setting the application dates with 3 months intervals in between these slots (standard LAD slots: 18, 21 and 24 months)..

For substances to be included in the 9th recommendation, ECHA sees currently no reason to deviate from these standard LAD slots.

ECHA will allocate to the same slot substances considered as a group (see Section 2.4), i.e. lead oxide sulfate will be allocated to the same slot as the other lead substances.

3.2. Review period for certain uses

ECHA proposes not to include in Annex XIV any review period for lead oxide sulfate.

In general, ECHA does not propose any upfront specific review periods in its draft recommendations for inclusion in the Authorisation List. Setting review periods in Annex XIV for any uses would require that ECHA had access to adequate information on different aspects relevant for a decision on the review period. Such information is generally not available to ECHA at the recommendation step. It is to be stressed that, in the next step of the authorisation process, i.e. during the decision on whether authorisation is granted based on specific applications by manufacturers, importers or downstream users of the substance, all authorisation decisions will include specific review periods which will be based on concrete case-specific information provided in the applications for authorisation.

⁵ General approach can be accessed at https://echa.europa.eu/documents/10162/13640/recom_general_approach_draft_axiv_entries.pdf

⁶ Practical implementation document can be accessed at https://echa.europa.eu/documents/10162/13640/recom_general_approach_draft_axiv_entries_draft_implementation_en.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 lead oxide sulfate on the basis of Article 58 (1)(e) in combination with Article 58(2) of the REACH Regulation.

According to Article 58(2) of REACH it is possible to exempt from the authorisation requirement uses or categories of uses *'provided that, on the basis of the existing specific Community legislation imposing minimum requirements relating to the protection of human health or the environment for the use of the substance, the risk is properly controlled'*.

ECHA considers the following elements in deciding whether to recommend an exemption of a use of a substance:

- There is existing EU legislation (i.e., rules of law adopted by a European Union entity intended to produce binding effects) addressing the specific use (or categories of use) that is proposed to be exempted;
- The existing EU legislation properly controls the risks to human health and/or the environment from the use of the substance arising from the intrinsic properties of the substance that are specified in Annex XIV; generally, the legislation in question should specifically refer to the substance to be included in Annex XIV either by naming the substance or by referring to a group of substances that is clearly distinct from other substances;
- The existing EU legislation imposes minimum requirements for the control of risks of the use. The piece of legislation (i) has to define the minimum standard to be adopted in the interest of public health or the environment and (ii) allows EU Member States to impose more stringent requirements than the specific minimum requirements set out in the EU legislation in question. Legislation setting only a general framework of requirements or the aim of imposing measures or not clearly specifying the actual type and effectiveness of measures to be implemented is not regarded as sufficient to meet the requirements under Article 58(2). Furthermore, it can be implied from the REACH Regulation that attention should be paid as to whether and how the risks related to the life-cycle stages resulting from the uses in question (i.e. service-life of articles and waste stage(s), as relevant) are covered by the legislation.

Where interested parties are considering making a request for exemption from authorisation under Art. 58(2) for a particular use, it is strongly recommended that they take into account ECHA's previous responses to Art. 58(2) exemption requests⁷. It is noted that any Art. 58(2) request is assessed case-by-case.

Furthermore, it should be noted that if a use falls under the generic exemptions from authorisation⁸, there is no need to propose an additional specific exemption.

⁷ See analysis of most relevant pieces of legislation e.g. in sections C.2.8 – C.2.12 in <https://echa.europa.eu/documents/10162/b80fccc0-c055-7cd7-4743-8d3c26956b15>, or section C.2 in <https://echa.europa.eu/documents/10162/b1820209-b7f4-4f87-998a-a996729c7375>

⁸ Generic exemptions from the authorisation requirement: https://echa.europa.eu/documents/10162/13640/generic_exemptions_authorisation_en.pdf/9291ab2a-fe2f-418d-9ce7-4c5abaaa04fc

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

ECHA proposes not to recommend to include in Annex XIV any exemption from authorisation for the use of lead oxide sulfate for PPORD.

So far, ECHA has not considered it appropriate to recommend specific exemptions for PPORD for any substance. ECHA notes that an operator may use a substance included in Annex XIV for a PPORD activity if that operator has obtained authorisation for that use of the substance in accordance with Articles 60 to 64 of the REACH Regulation.

No PPORD notifications have been submitted for lead oxide sulfate⁹.

⁹ As of 1 February 2018

4. References

ECHA (2018a): Lead oxide sulfate. ECHA's dissemination website on registered substances. Accessed on 1 February 2018.

<https://echa.europa.eu/search-for-chemicals>

ECHA (2018b): Background document by RAC and SEAC to the opinion on the Annex XV dossier proposing restrictions on lead compounds-PVC¹⁰. 15 March 2018.

<https://www.echa.europa.eu/documents/10162/79751532-2a8b-aefd-e634-6cc4b4bb21d8>

RCOM (2012): "*Responses to comments*" document. Document compiled by ECHA from the commenting period 03/09/2012-18/10/2012 on the proposal to identify lead oxide sulfate as a Substance of Very High Concern.

<https://www.echa.europa.eu/documents/10162/08869a9e-cd0e-4f83-9fed-4eed067bb1cb>

¹⁰ The background document is based on the restriction report submitted by ECHA (2016) but updated with relevant information received during the opinion forming process.

Annex I: Further information on uses

Further details on main (sector of) uses and structure and complexity of supply chains

The use in coatings for mirror backing reported in registration dossiers (ECHA, 2018) was also acknowledged as major use of the substance in a comment received during the SVHC public consultation (RCOM, 2012).

The following assumptions are made based on currently available information and will be used, together with any relevant information from public consultation, to allocate the substance to a specific LAD slot in the final recommendation.

Lead oxide sulfate is manufactured and/or imported by a limited number of registrants. No precise and up-to-date information is available on the number of industrial sites where the substances is currently used.

The supply chain can be characterised¹¹ by the following actors: formulators and producers of articles (relevant life cycle stages: F, IS).

The substance is used in products categorised as polymer preparations and compounds as well as coatings and paints, thinners, paint removes (relevant product categories: PC9a, PC32).

A number of sectors seem to rely on the substance including manufacturers of plastic products (including compounders and converters) and of bulk, large scale chemicals (including petroleum products) (relevant sector of use categories: SU8, SU12).

The substance ends up in stone, plaster, cement, glass and ceramic articles (relevant article category: AC4).

Some categories mentioned are not explicitly listed as use descriptors in registrations but could be derived from the information on uses available in the registration dossiers.

¹¹ Categories listed here after (life cycle stage, SU, PC and AC) make reference to the use descriptor system described in ECHA's guidance on use description:
https://echa.europa.eu/documents/10162/13632/information_requirements_r12_en.pdf