

**1 July 2015**

## **Background document for 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich**

### **Document developed in the context of ECHA's 6<sup>th</sup> 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.*

## **1. Identity of the substance**

Chemical name: 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich

EC Number: 276-158-1

CAS Number: 71888-89-6

IUPAC Name: C<sub>6-8-(branched)</sub>-Alkyl benzene-1,2-dicarboxylate

## **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 authorisation<sup>1</sup>. Results of the prioritisation of all substances included in the Candidate List by June 2013 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\\_6th\\_rec\\_en.pdf](http://echa.europa.eu/documents/10162/13640/prioritisation_results_6th_rec_en.pdf)

*The prioritisation results of the substances included in the draft 6<sup>th</sup> recommendation have been updated as necessary after the public consultation. The updated results are available at*

[http://echa.europa.eu/documents/10162/13640/updated\\_prioritisation\\_results\\_6th\\_axiv\\_rec\\_en.pdf](http://echa.europa.eu/documents/10162/13640/updated_prioritisation_results_6th_axiv_rec_en.pdf).

### **2.1. Intrinsic properties**

1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich 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, H360D:

<sup>1</sup> Document can be accessed at

[http://echa.europa.eu/documents/10162/13640/gen\\_approach\\_svhc\\_prior\\_in\\_recommendations\\_en.pdf](http://echa.europa.eu/documents/10162/13640/gen_approach_svhc_prior_in_recommendations_en.pdf)

"May damage the unborn child.", and was therefore included in the candidate list for authorisation on 20 June 2011, following ECHA's decision ED/31/2011.

## 2.2. Volume used in the scope of authorisation

There are no registrations for 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich under Regulation (EC) No 1907/2006 (REACH).<sup>2</sup>

## 2.3. Wide-dispersiveness of uses

There are no registrations for 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich under Regulation (EC) No 1907/2006 (REACH).

## 2.4. Further considerations for priority setting

1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich has structural similarities with other phthalates already included in Annex XIV and there are indications on the potential for using the substances in similar applications. Grouping was therefore considered for priority setting.

Past applications of 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich are reported in the Annex XV report (2011) which include:

- Use as plasticiser in PVC e.g. in the manufacture of flooring products (according to information from the industry the substance can be/was used for instance as a complete or partial replacement for DEHP/BBP blends in flooring and other applications, or as a partial replacement for other low molecular weight plasticizers (e.g. DEHP) in extrusion, injection moulding and calendaring applications requiring improved processability (Annex XV report, 2011)).
- Use in mixtures such as sealants, coatings and printing inks (Similar applications have been reported for DBP, DEHP and BBP (Annex XV report DBP (2008); Annex XV report DEHP (2008), Annex XV report BBP (2008)).

## 2.5. Conclusions and justification

On the basis of grouping considerations, 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich is recommended for inclusion in Annex XIV.

## 3. Further information on uses

The manufacture of 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich in the EU was reported as discontinued in 2010. To the knowledge of the former manufacturer in Europe and the USA, 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich has never been marketed by Asian manufacturers (Annex XV report, 2011).

Further details on potential types of applications can be found in the Annex XV report (2011) and in comments provided during the SVHC public consultation (RCOM, 2011).

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<sup>2</sup> Number of registrations as of 1 December 2014

## 4. 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 XIV<sup>3</sup>. The draft Annex XIV entries for substances included in the 6<sup>th</sup> recommendation are available at [http://echa.europa.eu/documents/10162/13640/6th\\_axiv\\_recommendation\\_july2015\\_en.pdf](http://echa.europa.eu/documents/10162/13640/6th_axiv_recommendation_july2015_en.pdf). The section below provides background for allocation of the substance to the Latest Application Dates slots.*

The LAD slots are set in 3 months intervals (normally 18, 21 and 24 months after inclusion in Annex XIV but more slots can be considered on a case-by-case basis).

Prioritised phthalates have been considered to be placed in the same slot as they may fulfil the definition of a group according to section 1.5 of Annex XI of REACH.

Allocation of (group of) substances to LAD slots aims at an even workload for all parties during the opinion forming and decision making on the authorisation applications. All substances can therefore not be set at the same LAD. ECHA proposes to allocate those substances to the "later" LAD slots (21 months or more) for which the available information indicates a relatively high number of uses. Substances with no registration requirement are also allocated to the later slots.

The time required to prepare applications for authorisation related to the prioritised phthalates may be relatively lower than for other (groups of) substances prioritised for this recommendation, considering e.g. the number of registered uses (six of the prioritised phthalates are not registered).

Therefore this group of substances is assigned in the 1st slot (LAD 18 months after inclusion in Annex XIV).

## 5. References

Annex XV report (2011): Proposal for identification of a substance as a CMR Cat 1A or 1B, PBT, vPvB or a substance of an equivalent level of concern. 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich. Submitted by ECHA on request of the Commission, February 2011.

<http://echa.europa.eu/documents/10162/eec0b364-e29e-48f8-970c-a4cdb78465b8>

Annex XV report DBP (2008): Proposal for identification of a substance as a CMR Cat 1A or 1B, PBT, vPvB or a substance of an equivalent level of concern. Dibutyl phthalate. Submitted by Austria, June 2008.

<http://echa.europa.eu/documents/10162/d9d7265f-b7c9-4dcf-8554-f92ae6170d66>

Annex XV report BBP (2008): Proposal for identification of a substance as a CMR Cat 1A or 1B, PBT, vPvB or a substance of an equivalent level of concern. Benzyl butyl phthalate. Submitted by Austria, June 2008.

<sup>3</sup> Document can be accessed at

[http://echa.europa.eu/documents/10162/13640/draft\\_axiv\\_entries\\_gen\\_approach\\_6th\\_en.pdf](http://echa.europa.eu/documents/10162/13640/draft_axiv_entries_gen_approach_6th_en.pdf)

<http://echa.europa.eu/documents/10162/1c5023db-5a6c-464b-bfb6-b5881f0c5c72>

Annex XV report DEHP (2008): Proposal for identification of a substance as a CMR Cat 1A or 1B, PBT, vPvB or a substance of an equivalent level of concern. DEHP. Submitted by Sweden, June 2008.

<http://echa.europa.eu/documents/10162/e0a2db43-7a7f-4f18-92f9-2eaa3e4aff92>

RCOM (2011): "Responses to comments" document. Document compiled by ECHA from the commenting period 21/02/2011 – 07/04/2011 on the proposal to identify 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich as a Substance of Very High Concern.

[http://echa.europa.eu/documents/10162/13638/rcom\\_benzenedicarboxylicacid\\_di\\_c\\_6\\_8\\_branched\\_alkylesters\\_c7\\_rich\\_20110510\\_en.rtf](http://echa.europa.eu/documents/10162/13638/rcom_benzenedicarboxylicacid_di_c_6_8_branched_alkylesters_c7_rich_20110510_en.rtf)