

Decision number: TPE-D-0000002408-74-06/F

Helsinki, 13 November 2012

DECISION ON A TESTING PROPOSAL SET OUT IN A REGISTRATION PURSUANT TO ARTICLE 40(3) OF REGULATION (EC) NO 1907/2006**For Triammonium hydrogen ethylenediaminetetraacetate, CAS No 15934-01-7 (EC No 240-073-8), registration number [REDACTED]****Addressee:** [REDACTED]
[REDACTED]

The European Chemicals Agency (ECHA) has taken the following decision in accordance with the procedure set out in Articles 50 and 51 of Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation).

I. Procedure

Pursuant to Article 40(1) of the REACH Regulation, ECHA has examined a testing proposal set out in the registration dossier for triammonium hydrogen ethylenediaminetetraacetate, CAS No 15934-01-7 (EC No 240-073-8), submitted by [REDACTED] (Registrant), latest submission number [REDACTED], for 10 to 100 tonnes per year.

In accordance with Articles 10(a)(ix) and 12(1)(d) of the REACH Regulation, the Registrant submitted the following testing proposal as part of the registration dossier to fulfil an information requirement set out in Annex IX:

- 90-day inhalation toxicity study (OECD 413) in rats, using the read-across substance disodium dihydrogen ethylenediaminetetraacetate.

The examination of the testing proposal was initiated on 1 October 2010.

ECHA opened a third party consultation for the testing proposal including testing on vertebrate animals that was held from 16 June 2011 until 1 August 2011. ECHA did receive information from third parties (see section III below).

On 28 March 2012 ECHA sent the draft decision to the Registrant and invited him to provide comments within 30 days of the receipt of the draft decision.

On 24 April 2012 ECHA received comments from the Registrant agreeing to ECHA's draft decision.

ECHA considered the Registrant's comments received and did not amend the draft decision.

On 14 June 2012 ECHA notified the Competent Authorities of the Member States of its draft decision and invited them pursuant to Article 51(1) of the REACH Regulation to submit proposals to amend the draft decision within 30 days of the receipt of the notification.

Subsequently, Competent Authorities of the Member States submitted proposals for amendment to the draft decision.

On 18 July 2012 ECHA notified the Registrant of proposals for amendment to the draft decision and invited him pursuant to Article 51(5) of the REACH Regulation to provide comments on those proposals for amendment within 30 days of the receipt of the notification.

ECHA reviewed the proposals for amendment received and decided to amend the draft decision accordingly.

On 30 July 2012 ECHA referred the draft decision to the Member State Committee.

On 16 August 2012, the Registrant provided comments on the proposed amendments. The Member State Committee took the comments of the Registrant into account.

After discussion in the Member State Committee meeting on 19-21 September 2012, a unanimous agreement of the Member State Committee on the draft decision as referred to MSC was reached on 19 September 2012. ECHA took the decision pursuant to Article 51(6) of the REACH Regulation.

This decision does not imply that the information provided by the Registrant in his registration dossier is in compliance with the requirements of the REACH Regulation. The decision does not prevent ECHA to initiate a compliance check on the present dossier at a later stage.

II. Testing required

Pursuant to Article 40(3)(a) of the REACH Regulation, the Registrant shall carry out the following test using the indicated test method and the read-across substance, disodium dihydrogen ethylenediaminetetraacetate:

- Sub-chronic toxicity study (90-day) in rats, inhalation route (Annex IX, 8.6.2., test method: EU B.29/OECD 413).

Pursuant to Articles 40(4) and 22 of the REACH Regulation, the Registrant shall submit to ECHA by **13 May 2014** an update of the registration dossier containing the information required by this decision.

At any time, the Registrant shall take into account that there may be an obligation to make every effort to agree on sharing of information and costs with other Registrants.

III. Statement of reasons

The decision of ECHA is based on the examination of the testing proposal submitted by the Registrant for the registered substance and scientific information submitted by third parties.

a) Examination of the testing proposal

Pursuant to Article 40(3)(a) of the REACH Regulation, ECHA may require the Registrant to carry out the proposed test.

The current registration dossier concerns a substance manufactured in quantities 10-100 tonnes per year. A short-term repeated dose toxicity study (28-day) is the standard information requirement in accordance with Annex VIII, section 8.6.1.

Nevertheless, the Registrant demonstrated the need for determining more accurately the chronic toxicological effects. More specifically, the Registrant has included in the dossier multiple reliable studies on read-across substances by the oral route, and this information satisfies the requirements of Annex XI, 1.5. In the study on the read-across substance, disodium dihydrogen ethylenediaminetetraacetate, the Registrant has identified that 5-day exposure via the inhalation route causes adverse effects with high potency (LOAEC < 30 mg/m³). There is severe toxicity in this 5-day study, and the length of this study (5 days) is too short for evaluating the chronic toxicological effects. Thus, in accordance with the column 2 requirements of Annex VIII 8.6.1., there is both "toxicity of particular concern (e.g. serious/severe effects)" and "indications of an effect for which the available evidence is inadequate for toxicological and/or risk characterisation."

As no other repeated dose inhalation study is available and inhalation exposure has been identified, there is a concern for human health effects. In accordance with column 2 of Annex VIII, section 8.6.1., a further study has been proposed by the Registrant: the Registrant has proposed a sub-chronic toxicity study (90-day) in rats, by the inhalation route (test method: EU B.29/OECD 413) to provide this information.

The Registrant has proposed to conduct the above study using the read-across substance disodium dihydrogen ethylenediaminetetraacetate.

The scientific basis for this read-across is that the toxicity of these chemicals is mediated via the edetate ion, that absorption of edetate from various edetate salts is equivalent, and this is supported by numerous mechanism of action investigations and toxicity measurements in animal studies. ECHA notes that the read-across argument was accepted in the EU Risk Assessment Reports on Edetic acid and tetra-sodium edetate.

ECHA considers that the justification given demonstrates that it is plausible that the requirements of Annex XI, section 1.5 in conjunction with article 13(1) and Annex IX, third introductory paragraph, of the REACH Regulation may be met. Specifically, adequate and reliable documentation of the applied method has been provided, and ECHA considers that there is, *prima facie*, a scientific justification that human health effects for repeat-dose toxicity may be predicted from data for the substance disodium dihydrogen EDTA through the read-across approach. However, a final conclusion on the validity of the suggested approach to adapt the standard information requirement will only be possible when it has been demonstrated on the basis of test results that the conditions set out in Annex XI section 1.5 are met for this endpoint.

ECHA emphasises that it is the Registrant's responsibility to amend and substantiate read-across and category justification according to Annex XI, section 1.5 and to use all relevant available data.

Following the update of the dossier based on the present decision, ECHA will decide whether the documentation provided is sufficient to satisfactorily address the information requirement for the substance subject to this decision as proposed by the Registrant. If, upon further consideration, the proposed approach does not satisfy the conditions set out in Annex XI, ECHA reserves the right to request the information necessary to fulfil the information requirements.

b) Consideration of third party information

ECHA received third party information concerning the testing proposal during the third party consultation. For the reasons explained further below the information provided by third parties is not sufficient to fulfil this information requirement.

The third party submitted the following comments for consideration:

1. Animal welfare considerations:

Considering that 6 out of 20 animals died at the highest dose group in the range finding study, in case the study is performed, the dose should be reduced below 300 mg/m³ air to avoid mortality after longer exposure duration.

2. Previous exposure and risk assessment for EDTA and its salts:

The EU-RAR report concludes that for Na₄EDTA there is no need for further information or testing. The cosmetic ingredients review expert panel found these ingredients safe as used in cosmetic formulations. It should be evaluated if tests waiving can be justified based on exposure and if there is a need to establish an OEL value

3. Read-across:

In case the 90 day study will have to be conducted for Na₂H₂ EDTA, data should be used from edetic acid and all salts of EDTA in a read-across approach

ECHA concludes as follows:

1) "Animal welfare considerations".

It is the registrant's responsibility to set the dose level appropriately. Third parties are invited, as specified by Article 40(2) of the REACH Regulation to submit "scientifically valid information and studies that address the relevant substance and hazard end-point, addressed by the testing proposal". As the comment about animal welfare considerations cannot be regarded as information or studies, ECHA concludes that this is not a sufficient basis to fulfil the data/information requirement.

2) "previous exposure and risk assessment".

The third party has proposed a strategy of test waiving and questioned the need to establish an OEL. However, third parties are invited, as specified by Article 40(2) of the REACH Regulation to submit "scientifically valid information and studies that address the relevant substance and hazard end-point, addressed by the testing proposal". As the proposal for a strategy as such cannot be regarded as information or studies, ECHA concludes that this is not a sufficient basis to fulfil the data/information requirement. With respect to previous risk assessments, ECHA notes that the Registrant has provided novel information which has not been addressed in the references cited and this testing proposal addresses the information need. In summary, these arguments do not provide a basis for rejecting the testing proposal.

3) "read-across".

The Registrant has already proposed a test on the read-across substance, disodium dihydrogen ethylenediaminetetraacetate; consequently, the third-party comment is recommending the course of action set out in the testing proposal. There is no basis for rejecting the testing proposal.

c) Outcome

Therefore, pursuant to Article 40(3)(a) of the REACH Regulation, the Registrant is required to carry out the proposed study: Sub-chronic toxicity study (90-day) in rats, inhalation route (test method: EU B.29/OECD 413) using the read-across substance disodium dihydrogen ethylenediaminetetraacetate.

IV. General requirements for the generation of information and Good Laboratory Practice

ECHA reminds registrants of the requirements of Article 13(4) of the REACH Regulation that ecotoxicological and toxicological tests and analyses shall be carried out in compliance with the principles of good laboratory practice (GLP). National authorities monitoring GLP maintain lists of test facilities indicating the relevant areas of expertise of each facility.

According to Article 13(3) of the REACH Regulation, tests that are required to generate information on intrinsic properties of substances shall be conducted in accordance with the test methods laid down in a Commission Regulation or in accordance with other international test methods recognised by the Commission or the European Chemicals Agency as being appropriate. Thus, the Registrant shall refer to Commission Regulation (EC) No 440/2008 laying down test methods pursuant to Regulation (EC) No 1907/2006 as adapted to technical progress and use the applicable test methods to generate the information on the endpoints indicated above.

National authorities monitoring good laboratory practice (GLP) maintain lists of test facilities indicating the relevant areas of expertise of each facility.

V. Information on right to appeal

An appeal may be brought against this decision to the Board of Appeal of ECHA under Article 51(8) of the REACH Regulation. Such appeal shall be lodged within three months of receiving notification of this decision. Further information on the appeal procedure can be found on the ECHA's internet page at http://echa.europa.eu/appeals/app_procedure_en.asp. The notice of appeal will be deemed to be filed only when the appeal fee has been paid.



Geert Dancet
Executive Director