

Helsinki, 14 November 2023

Addressee(s)

Registrant of New Behenylketendimer as listed in Appendix 3 of this decision

Date of submission of the dossier subject to this decision 24 July 2015

Registered substance subject to this decision ("the Substance")

Substance name: 3-icosyl-4-henicosylidene-2-oxetanone EC/List number: 401-210-9

Decision number: Please refer to the REACH-IT message which delivered this communication (in format CCH-D-XXXXXXXXXXXXXX/F)

DECISION ON A COMPLIANCE CHECK

Under Article 41 of Regulation (EC) No 1907/2006 (REACH), you must submit the information listed below by **21 November 2025**.

Requested information must be generated using the Substance unless otherwise specified.

Information required from all the Registrants subject to Annex VIII of REACH

1. Long-term toxicity testing on fish, also requested below (triggered by Annex VIII, Section 9.1.3., Column 2).

Information required from all the Registrants subject to Annex IX of REACH

2. Long-term toxicity testing on fish (Annex IX, Section 9.1.6.; test method: EU C.47./OECD TG 210).

The reasons for the request(s) are explained in Appendix 1.

Information required depends on your tonnage band

You must provide the information listed above for all REACH Annexes applicable to you in accordance with Articles 10(a) and 12(1) of REACH. The addressee of the decision and its corresponding information requirements based on registered tonnage band are listed in Appendix 3.

In the requests above, the same study has been requested under different Annexes. This is because some information requirements may be triggered at lower tonnage band(s). In such cases, only the reasons why the information requirement is triggered are provided for the lower tonnage band(s). For the highest tonnage band, the reasons why the information requirement is not met and the specification of the study design are provided. Only one study is to be conducted.

How to comply with your information requirements

To comply with your information requirements, you must submit the information requested by this decision in an updated registration dossier by the deadline indicated above. You must also **update the chemical safety report**, where relevant, including any changes to classification and labelling, based on the newly generated information.



You must follow the general requirements for testing and reporting new tests under REACH, see Appendix 4.

Appeal

This decision, when adopted under Article 51 of REACH, may be appealed to the Board of Appeal of ECHA within three months of its notification to you. Please refer to http://echa.europa.eu/regulations/appeals for further information.

Failure to comply

If you do not comply with the information required by this decision by the deadline indicated above, ECHA will notify the enforcement authorities of your Member State.

Authorised¹ under the authority of Mike Rasenberg, Director of Hazard Assessment

- Appendix 1: Reasons for the request(s)
- Appendix 2: Procedure
- Appendix 3: Addressees of the decision and their individual information requirements
- Appendix 4: Conducting and reporting new tests under REACH

¹ As this is an electronic document, it is not physically signed. This communication has been approved according to ECHA's internal decision-approval process.



Appendix 1: Reasons for the request(s)

Contents

Reas	Reasons related to the information under Annex VIII of REACH			
1.	Long-term toxicity testing on fish	4		
Reas	sons related to the information under Annex IX of REACH	5		
2.	Long-term toxicity testing on fish	5		
Refe	rences	8		



Reasons related to the information under Annex VIII of REACH

1. Long-term toxicity testing on fish

1 Short-term toxicity testing on fish is an information requirement under Annex VIII, Column 1, Section 9.1.3. However, long-term toxicity testing on fish may be required by the Agency (Section 9.1.3., Column 2) if the substance is poorly water soluble, i.e. solubility below 1 mg/L.

1.1. Triggering of the information requirement

- 2 In the provided QSAR estimation for the Substance, the saturation concentration of the Substance in water was determined to be < 0.02 mg/L.
- 3 Therefore, the Substance is poorly water soluble and information on long-term toxicity on fish must be provided.
- 4 In your comments to the draft decision you agree that the Substance has to be regarded as poorly water soluble.

1.2. Information requirement not fulfilled

5 The information provided, its assessment and the specifications of the study design are addressed under the reasons for request 2 below.



Reasons related to the information under Annex IX of REACH

2. Long-term toxicity testing on fish

- 6 Long-term toxicity testing on fish is an information requirement under Annex IX to REACH (Section 9.1.6.).
 - 2.1. Information provided in your registration dossier
- 7 You have provided:
 - (i) a toxicity study (OECD TG 204) on fish with the Substance.

2.1.1. Assessment of the information provided

- 2.1.1.1. The OECD TG 204 is not a valid test guideline to meet this information requirement
- 8 To fulfil the information requirement, a study must be a long-term fish test. Guidance on IRs and CSA, Section R.7.8.4.1. specifies that only studies in which sensitive life-stages (juveniles, eggs and larvae) are exposed can be regarded as long-term fish tests.
- 9 Your registration dossier provides an OECD TG 204 study.
- 10 This study does not provide information on the toxicity of the test material to all relevant sensitive life-stages (i.e. juveniles, eggs and larvae). OECD TG 204 only provides information on prolonged acute toxicity and, based on the above, it does not qualify as a long-term fish test. Therefore, this information is rejected.
- 11 In your comments to the draft decision you agree that the OECD 204 study does not fulfill the information requirement of the endpoint of long-term toxicity on fish.
 - 2.2. Read-across adaptation in your comments on the draft decision
- 12 In your comments to the draft decision you state that you want to adapt this information requirement by using a grouping and read-across approach under Annex XI, Section 1.5 with two source substances.
- 13 You provided a new read-across justification document in your comments.
- 14 You explain that you intend to predict the properties of the Substance from information (OECD 210 study) to be obtained from the following two source substances (analogues):
 - 2-Oxetanone, 3-C14-16-alkyl 4-C15-17-alkylidene derivs. (EC# 308-760-8);
 - (4E)-4-(C13-C17)alkylidene-3-(C12-C16)alkyloxetan-2-one (EC# 939-401-9) as supporting
- 15 You provide the following reasoning for the prediction of *aquatic toxicity: "Based on this slight difference in size of the alkyl chain only, the target substance is anticipated to have a similar behaviour in aquatic media, be it with a lower water solubility than the source substance (EC# 308-760-8). As a consequence, with regard to the ecotoxicity long-term endpoint, the result of the OECD 210 with the source substance (solid AKD) can be used as a worst-case value to fill the requested endpoint in this draft Decision. The second source substance (EC# 939-401-9) differs somewhat more from the target substance: not only the C-chain length (C20-C22 in the target versus C12-C18 in the supporting source) but also the saturation level differs. It is therefore proposed to use the result from the OECD 210 study from this substance only as supporting information in the read-across".*



16 ECHA understands that your read-across hypothesis as described in your comments assumes that different compounds have the same type of effects. You predict the properties of your Substance based on a worst-case approach.

2.2.1. Read-across adaptation rejected

- 17 Annex XI, Section 1.5. specifies two conditions which must be fulfilled whenever a readacross approach is used. Firstly, there needs to be structural similarity between substances which results in a likelihood that the substances have similar physicochemical, toxicological and ecotoxicological properties so that the substances may be considered as a group or category. Secondly, it is required that the relevant properties of a substance within the group may be predicted from data for reference substance(s) within the group.
- 18 Additional information on what is necessary when justifying a read-across approach can be found in the Guidance on IRs and CSA, Chapter R.6. and related documents (RAAF, 2017; RAAF UVCB, 2017).

2.2.1.1. Inadequate read-across hypothesis

- 19 Annex XI, Section 1.5. requires that whenever read-across is used adequate and reliable documentation of the applied method must be provided. Such documentation must include an explanation why the properties of the Substance may be predicted from other substances in the group, i.e. a read-across hypothesis. This hypothesis should be based on recognition of the structural similarities and differences between the substances (Guidance on IRs and CSA, Section R.6.). It should explain why the differences in the chemical structures should not influence the (eco)toxicological properties or should do so in a regular pattern, taking into account that variations in chemical structure can affect both toxicokinetics (uptake and bioavailability) and toxicodynamics (e.g. interactions with receptors and enzymes) of substances (Guidance on IRs and CSA, Section R.6.2.1.3.).
- 20 First, your read-across hypothesis is only based on structural similarities and similarities in the physico-chemical properties of the source substance(s). You consider that these elements are a sufficient basis for predicting the toxicological properties of the Substance.
- 21 You have not substantiated how structural and physico-chemical similarity alone would explain similarity in the predicted endpoint(s) and thus be sufficient to justify the (eco)toxicological predictions.
- 22 Second, there is no assessment how structural differences (different unsaturation of the alkyl chains) may impact the prediction.
- 23 Physico-chemical similarity alone does not necessarily lead to predictable or similar toxicological properties and the relevance of structural differences are left unaddressed. hese differences could lead to a different reactivity and potentially to a different (eco)toxicity profile.
- 24 You have not provided a well-founded hypothesis to establish a reliable prediction for an (eco)toxicological property, explaining why the structural differences do not influence toxicokinetics and toxicodynamics of the substances, and thus why the properties of the Substance may be predicted from information on the source substance(s).
- 25 In the absence of such information, you have not established that the Substance and the source substance(s) are likely to have similar properties. Therefore you have not provided sufficient supporting information to scientifically justify the read-across.

2.2.1.2. Absence of source study

26 Annex XI, Section 1.5 of REACH requires robust study summaries for each source study.



27 Your strategy relies on source data, which are yet to be generated, so no conclusion on the compliance can currently be made. You remain responsible for complying with this decision by the set deadline.

2.2.1.3. Conclusion

- 28 Based on the above, you have not established that relevant properties of the Substance can be predicted from data on the source substance(s). Your read-across approach under Annex XI, Section 1.5. is rejected.
- 29 Therefore, the information requirement is not fulfilled.

2.3. Study design

- 30 To fulfil the information requirement for the Substance, the Fish, Early-life Stage Toxicity Test (test method OECD TG 210) is the most appropriate (Guidance on IRs and CSA, Section R.7.8.2.).
- 31 The Substance is difficult to test due to the low water solubility (< 0.02 mg/L) and adsorptive properties: log K_{oc} 11.43. OECD TG 210 specifies that, for difficult to test substances, you must consider the approach described in OECD GD 23 or other approaches, if more appropriate for your substance. In all cases, the approach selected must be justified and documented. Due to the properties of Substance, it may be difficult to achieve and maintain the desired exposure concentrations. Therefore, you must monitor the test concentration(s) of the Substance throughout the exposure duration and report the results. If it is not possible to demonstrate the stability of exposure concentrations (i.e. measured concentration(s) not within 80-120% of the nominal concentration(s)), you must express the effect concentration based on measured values as described in OECD TG 210. In case a dose-response relationship cannot be established (no observed effects), you must demonstrate that the approach used to prepare test solutions was adequate to maximise the concentration of the Substance in the test solution.
- 32 For multi-constituents/UVCBs, the analytical method must be adequate to monitor qualitative and quantitative changes in exposure to the dissolved fraction of the test material during the test (e.g. by comparing mass spectral full-scan GC or HPLC chromatogram peak areas or by using targeted measures of key constituents or groups of constituents).
- 33 If you decide to use the Water Accommodated Fraction (WAF) approach, in addition to the above, you must:
 - use loading rates that are sufficiently low to be in the solubility range of most constituents (or that are consistent with the PEC value). This condition is mandatory to provide relevant information for the hazard and risk assessment (Guidance on IRs and CSA, Appendix R.7.8.1-1, Table R.7.8-3);
 - provide a full description of the method used to prepare the WAF (including, among others, loading rates, details on the mixing procedure, method to separate any remaining non-dissolved test material including a justification for the separation technique);
 - prepare WAFs separately for each dose level (i.e. loading rate) and in a consistent manner.



References

The following documents may have been cited in the decision.

Guidance on information requirements and chemical safety assessment (Guidance on IRs & CSA)

- Chapter R.4 Evaluation of available information; ECHA (2011).
- Chapter R.6 QSARs, read-across and grouping; ECHA (2008).
 - Appendix to Chapter R.6 for nanoforms; ECHA (2019).
- Chapter R.7a Endpoint specific guidance, Sections R.7.1 R.7.7; ECHA (2017). Appendix to Chapter R.7a for nanomaterials; ECHA (2017).
- Chapter R.7b Endpoint specific guidance, Sections R.7.8 R.7.9; ECHA (2017). Appendix to Chapter R.7b for nanomaterials; ECHA (2017).
- Chapter R.7c Endpoint specific guidance, Sections R.7.10 R.7.13; ECHA (2017). Appendix to Chapter R.7a for nanomaterials; ECHA (2017). Appendix R.7.13-2 Environmental risk assessment for metals and metal compounds; ECHA (2008).
- Chapter R.11 PBT/vPvB assessment; ECHA (2017).

Chapter R.16 Environmental exposure assessment; ECHA (2016).

Guidance on data-sharing; ECHA (2017).

Guidance for monomers and polymers; ECHA (2012).

Guidance on intermediates; ECHA (2010).

All guidance documents are available online: <u>https://echa.europa.eu/guidance-documents/guidance-on-reach</u>

Read-across assessment framework (RAAF)

RAAF, 2017Read-across assessment framework (RAAF); ECHA (2017).RAAF UVCB, 2017Read-across assessment framework (RAAF) – considerations on
multi- constituent substances and UVCBs; ECHA (2017).

The RAAF and related documents are available online: <u>https://echa.europa.eu/support/registration/how-to-avoid-unnecessary-testing-on-animals/grouping-of-substances-and-read-across</u>

OECD Guidance documents (OECD GDs)

Guidance document on aquatic toxicity testing of difficult
substances and mixtures; No. 23 in the OECD series on testing and
assessment, OECD (2019).
Guidance document on transformation/dissolution of metals and
metal compounds in aqueous media; No. 29 in the OECD series on
testing and assessment, OECD (2002).
Revised guidance document 150 on standardised test guidelines for
evaluating chemicals for endocrine disruption; No. 150 in the OECD
series on testing and assessment, OECD (2018).
Guidance document supporting OECD test guideline 443 on the
extended one-generation reproductive toxicity test; No. 151 in the
OECD series on testing and assessment, OECD (2013).



Appendix 2: Procedure

This decision does not prevent ECHA from initiating further compliance checks at a later stage on the registrations present.

ECHA followed the procedure detailed in Articles 50 and 51 of REACH.

The compliance check was initiated on 22 November 2022.

ECHA notified you of the draft decision and invited you to provide comments.

ECHA took into account your comments and did not amend the request(s).

The deadline of the decision is set based on standard practice for carrying out OECD TG tests. It has been exceptionally extended by 12 months from the standard deadline granted by ECHA to take into account currently longer lead times in contract research organisations.

ECHA notified the draft decision to the competent authorities of the Member States for proposals for amendment.

As no amendments were proposed, ECHA adopted the decision under Article 51(3) of REACH.



Appendix 3: Addressee(s) of this decision and their corresponding information requirements

In accordance with Articles 10(a) and 12(1) of REACH, the information requirements for individual registrations are defined as follows:

- the information specified in Annex VII to REACH, for registration at 1-10 tonnes per year (tpa), or as a transported isolated intermediate in quantity above 1000 tpa;
- the information specified in Annexes VII and VIII to REACH, for registration at 10-100 tpa;
- the information specified in Annexes VII, VIII and IX to REACH, for registration at 100-1000 tpa;
- the information specified in Annexes VII to X to REACH, for registration at more than 1000 tpa.

Registrant Name	Registration number	Highest REACH Annex applicable to you

Where applicable, the name of a third-party representative (TPR) may be displayed in the list of recipients whereas ECHA will send the decision to the actual registrant.



Appendix 4: Conducting and reporting new tests for REACH purposes

1. Requirements when conducting and reporting new tests for REACH purposes

1.1 Test methods, GLP requirements and reporting

(1) Under Article 13(3) of REACH, all new data generated as a result of this decision must be conducted according to the test methods laid down in a European Commission Regulation or to international test methods recognised by the Commission or ECHA as being appropriate.

(2) Under Article 13(4) of REACH, ecotoxicological and toxicological tests and analyses must be carried out according to the GLP principles (Directive 2004/10/EC) or other international standards recognised by the Commission or ECHA.

(3) Under Article 10(a)(vi) and (vii) of REACH, all new data generated as a result of this decision must be reported as study summaries, or as robust study summaries, if required under Annex I of REACH. See ECHA Practical Guide on How to report robust study summaries (https://echa.europa.eu/practical-guides).

(4) Under the introductory part of Annexes VII/VIII/IX/X to REACH, where a test method offers flexibility in the study design, for example in relation to the choice of dose levels or concentrations, the chosen study design must ensure that the data generated are adequate for hazard identification and risk assessment.

1.2 Test material

(1) Selection of the Test material(s)

The Test Material used to generate the new data must be selected taking into account the following:

- the boundary composition(s) of the Substance,
- the impact of each constituent/group of constituents on the test results for the endpoint to be assessed. For example, if a constituent/group of constituents of the Substance is known to have an impact on (eco)toxicity, the selected Test Material must contain that constituent/group of constituents.

(2) Information on the Test Material needed in the updated dossier

- You must report the composition of the Test Material selected for each study, under the "Test material information" section, for each respective endpoint study record in IUCLID.
- The reported composition must include the careful identification and description of the characteristics of the Tests Materials in accordance with OECD GLP (ENV/MC/CHEM(98)16) and EU Test Methods Regulation (EU) 440/2008 (Note, Annex), namely all the constituents must be identified as far as possible as well as their concentration. Also any constituents that have harmonised classification and labelling according to the CLP Regulation must be identified and quantified using the appropriate analytical methods.

With that detailed information, ECHA can confirm whether the Test Material is relevant for the Substance and whether it is suitable for use by all members of the joint submission.

Technical instructions on how to report the above is available in the manual on How to prepare registration and PPORD dossiers (<u>https://echa.europa.eu/manuals</u>).