

Helsinki, 18 January 2024

Addressee(s)

Registrant(s) of TBBA-GE JS as listed in Appendix 3 of this decision

Date of submission of the dossier subject to this decision 25 July 2022

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

Substance name: 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction

products with 1-chloro-2,3-epoxypropane

EC number: 500-107-7

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

DECISION ON A COMPLIANCE CHECK

Under Article 41 of Regulation (EC) No 1907/2006 (REACH), you must submit the information listed below by **23 October 2026**.

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

- Long-term toxicity testing on fish (Annex IX, Section 9.1.6.; test method: EU C.47./OECD TG 210);
- 3. Simulation testing on ultimate degradation in surface water (Annex IX, Section 9.2.1.2.; test method: EU C.25/OECD TG 309) at a temperature of 12°C;
- 4. Identification of degradation products (Annex IX, Section 9.2.3.; test method: EU C.25/OECD TG 309).

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 addressees of the decision and their 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 standard information requirement is not met and the specification of the study design are



provided. Only one study is to be conducted; all registrants concerned must make every effort to reach an agreement as to who is to carry out the study on behalf of the others under Article 53 of REACH.

You are only required to share the costs of information that you must submit to fulfil your information requirements.

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.

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Appendix 1: Reasons for the request(s)

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Reasons related to the information under Annex VIII of REACH

1. Long-term toxicity testing on fish

- 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.
- You have provided information which indicates that the Substance includes constituents that are poorly water soluble. In the provided OECD TG 105 (2012) study, the saturation concentration of the Substance in water was concluded to be in the range of 26.4 to 33.9 µg/L based on the water solubilities determined for the constituents of the Substance.
- Therefore, as the constituents of the Substance are poorly water soluble, the Substance is poorly water soluble and information on long-term toxicity on fish must be provided.

1.1. Information requirement not fulfilled

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



Reasons related to the information under Annex IX of REACH

2. Long-term toxicity testing on fish

5 Long-term toxicity testing on fish is an information requirement under Annex IX to REACH (Section 9.1.6.).

2.1. Information provided

You have adapted this information requirement and provided justification based on "exposure considerations" and you argue that "Aquatic toxicity is unlikely to occur because the substance is highly insoluble in water" in order to support your data waiving.

2.2. Assessment of information provided

2.2.1. Your justification to omit the study has no legal basis

- A registrant may only adapt this information requirement based on the general rules set out in Annex XI.
- 8 Your justification to omit this information does not refer to any specific or general rule for adaptation under Annex XI to REACH.
- We note that you mention "exposure consideration" in your adaptation. In the absence of any further-reaching justification and documentation our understanding is that you are not providing an adaptation under Annex XI, Section 3.2 but that you are justifying the ommission of information on the basis of the observation that fish are not exposed to the Substance due to its high insolubility in aquatic environment.
- It is noted here that high insolubility or poor water solubility as such does not mean that aquatic toxicity is unlikely to occur. Poorly water soluble substances require longer time to reach steady-state conditions. Your substance is poorly water soluble based on the range of reported water solubilities and the reaching of the steady-state conditions and potential toxic effects cannot be ruled out in the time-frame of long-term aquatic toxicity tests.
- 11 Therefore, you have not demonstrated that this information can be omitted.
- 12 Therefore, the information requirement is not fulfilled.
- In your comments to the draft decision, you indicate that you "will possibly carry out an exposure assessment to assess whether a waiver of the endpoint according to Annex XI is possible" and that in case the requirements under Annex XI (Section 3) are not met, you will do the requested study.
- Based on the information provided in your comments, there is currently no information to assess whether your potential adaptation would fulfil the requirements of Section 3 of Annex XI to the REACH Regulation. You remain responsible for complying with this decision by the set deadline.

2.3. Study design and test specifications

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.).



- The OECD TG 210 specifies that, for difficult to test substances, the OECD GD 23 must be 16 followed. The Substance is difficult to test due to its low water solubility (as already explained above in request 1) and adsorptive properties (logKow 5.74 reported for the primary component). 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 doseresponse 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.
- 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).
- 18 If you decide to use the Water Accommodated Fraction (WAF) approach, in addition to the above, you must:
 - 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.

3. Simulation testing on ultimate degradation in surface water

- 19 Simulation testing on ultimate degradation in surface water is an information requirement under Annex IX to REACH (Section 9.2.1.2.).
 - 3.1. Information provided
- You have adapted this information requirement by using Column 2 of Annex IX, Section 9.2.1.2. To support the adaptation, you have provided following information:

"The study does not need to be conducted because the substance is highly insoluble in water."

- 3.2. Assessment of the information provided
 - 3.2.1. The provided adaptation does not meet the criteria of annex IX, Section 9.2.1.2., Column 2
- 21 Under Annex IX, Section 9.2.1.2., Column 2, first indent, the study can be omitted in case the Substance is highly insoluble.



- There is no cut off value in the REACH Regulation for the term "highly insoluble". Since any substance may be persistent, what is most important is what can be assessed in a study, i.e., it is necessary to demonstrate that it is not reasonably possible to develop an analytical method with sufficient sensitivity to meet the test guideline requirements taking into account the specific technical limitations of the OECD TG 309 which include, in particular:
 - for the determination of biodegradation kinetics, the concentrations of the test substance must be below its water solubility, and
 - the limit of quantification (LOQ) should be equal to or less than 10% of the applied concentration.
- Consequently, a substance has an insolubility too high for conducting a simulation testing on ultimate degradation in surface water in accordance with OECD TG 309 if the LOQ of a sensitive analytical method is not at least ten times lower to the water solubility of the substance.
- You provided the following information in support of your claim that the study does not need to be conducted because the substance is highly insoluble in water:
 - You provided an OECD TG 105 (2012) study, where the saturation concentration of the Substance in water was determined to be in the range of 26.4 to 33.9 µg/L.
- You did not provide any argument in relation to the specific technical limitations of the OECD TG 309.
- Furthermore, you have reported an OECD TG 211 (2013) study for the long-term aquatic toxicity in aquatic invertebrates, where the limit of quantification (LOQ) using the HPLC method was reported to be $1.0~\mu g/L$.
- OECD TG 309 recommends that test concentrations are from 1 μ g/L to 100 μ g/L and preferably between 1 and 10 μ g/L. Therefore, taking into account the information of the Substance (reported water solubility and the LOQ) and the technical limitations of the OECD TG 309 test, the requested study with the Substance can be conducted at the concentrations recommended in the test guideline.
- 28 Therefore, the adaptation is rejected.
- Therefore, the information requirement is not fulfilled.
- In your comments to the draft decision, you indicate that you "will possibly carry out an exposure assessment to assess whether a waiver of the endpoint according to Annex XI is possible" and that in case the requirements under Annex XI (Section 3) are not met, you will do the requested study.
- Based on the information provided in your comments, there is currently no information to assess whether your potential adaptation would fulfil the requirements of Section 3 of Annex XI to the REACH Regulation. You remain responsible for complying with this decision by the set deadline.
 - 3.3. Study design and test specifications
- 32 Simulation degradation studies must include two types of investigations (Guidance on IRs and CSA, Section R.7.9.4.1):
 - (1) a degradation pathway study where transformation/degradation products are quantified and, if relevant, are identified, and
 - (2) a kinetic study where the degradation rate constants (and degradation half-lives) of the parent substance and of relevant transformation/degradation products are experimentally determined.



- You must perform the test, by following the pelagic test option with natural surface water containing approximately 15 mg dw/L of suspended solids (acceptable concentration between 10 and 20 mg dw/L) (Guidance on IRs and CSA, Section R.11.4.1.1.3.).
- The required test temperature is 12°C, which corresponds to the average environmental temperature for the EU (Guidance on IRs and CSA, Table R.16-8) and is in line with the applicable test conditions of the OECD TG 309.
- As specified in Guidance on IRs and CSA, Section R.7.9.4.1., the organic carbon (OC) concentration in surface water simulation tests is typically 2 to 3 orders of magnitude higher than the test material concentration and the formation of non-extractable residues (NERs) may be significant in surface water tests. Paragraph 52 of the OECD TG 309 provides that the "total recovery (mass balance) at the end of the experiment should be between 90% and 110% for radiolabelled substances, whereas the initial recovery at the beginning of the experiment should be between 70% and 110% for non-labelled substances". NERs contribute towards the total recovery. Therefore, the quantity of the (total) NERs must be accounted for the total recovery (mass balance), when relevant, to achieve the objectives of the OECD TG 309 to derive degradation rate and half-life. The reporting of results must include a scientific justification of the used extraction procedures and solvents.
- For the persistence assessment by default, total NERs is regarded as non-degraded Substance. However, if reasonably justified and analytically demonstrated a certain part of NERs may be differentiated and quantified as irreversibly bound or as degraded to biogenic NERs, such fractions could be regarded as removed when calculating the degradation half-life(s) (Guidance on IRs and CSA, Section R.11.4.1.1.3.). Further recommendations may be found in the background note on options to address non-extractable residues in regulatory persistence assessment available on the ECHA website (NER summary 2019 (europa.eu)).
- Relevant transformation/degradation products are at least those detected at ≥ 10% of the applied dose at any sampling time or those that are continuously increasing during the study even if their concentrations do not exceed 10% of the applied dose, as this may indicate persistence (OECD TG 309; Guidance on IRs and CSA, Section R.11.4.1.).

4. Identification of degradation products

- Identification of abiotic and biotic degradation products is an information requirement under Annex IX to REACH (Section 9.2.3.).
- 39 You have not submitted any information for this requirement.
- 40 Therefore, the information requirement is not fulfilled.

4.1. Study design and test specifications

Regarding the selection of appropriate and suitable test method(s), the method(s) will have to be substance-specific. Identity, stability, behaviour, and molar quantity of the degradation/transformation products relative to the Substance must be evaluated and reported, when analytically possible. In addition, degradation half-life, log Kow and potential toxicity of the transformation/degradation may need to be investigated. You may obtain this information from the degradation study requested in Request 3. If any other method is used for the identification of the transformation/degradation products, you must provide a scientifically valid justification for the chosen method.

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To determine the degradation rate of the Substance, the requested study according to OECD TG 309 (Request 3) must be conducted at 12°C and at a test concentration < 100 μ g/L. However, to overcome potential analytical limitations with the identification and quantification of major transformation/degradation products, you may consider running a parallel test at higher temperature (but within the frame provided by the test guideline, e.g. 20°C) and at higher application rate (i.e. > 100 μ g/L).



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: https://echa.europa.eu/guidance-

documents/guidance-on-reach

Read-across assessment framework (RAAF)

RAAF, 2017 Read-across assessment framework (RAAF); ECHA (2017).

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

The RAAF and related documents are available online:

https://echa.europa.eu/support/registration/how-to-avoid-unnecessary-testing-on-animals/grouping-of-substances-and-read-across

OECD Guidance documents (OECD GDs)

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OECD GD 23	Guidance document on aquatic toxicity testing of difficult				
	substances and mixtures; No. 23 in the OECD series on testing and				
	assessment, OECD (2019).				
OECD GD 29	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).				
OECD GD 150	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).				
OECD GD 151	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 1 February 2022.

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

ECHA took into account your comments and amended the request(s).

You provided comments during the decision-making phase which were found to address some of the incompliances identified in the draft decision and you included this information in an update of your registration dossier (submission date: 08 February 2023). Therefore the requests addressing the information requirements of Annex VII, 8.3 for skin sensitisation, Annex VII, 8.4.1 for an in vitro gene mutation study in bacteria, Annex VII, 9.1.2 for a growth inhibition study in aquatic algae, Annex VIII, 8.4.2 for an in vitro micronucleus study, Annex VIII, 8.4.3 for an in vitro gene mutation study in mammalian cells and Annex. IX 9.1.5 for long term toxicity testing on aquatic invertebrates (also triggered by Annex VII, 9.1.1 Column 2) were removed from the decision.

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.

Following the Board of Appeal's decision in case A-001-2022 ECHA revised the study design specifications for meeting the information requirement for simulation testing on ultimate degradation in surface water (Annex VIII, column 2, section 9.2 and/or Annex IX, first column, section 9.2.1.2).

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 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 summaries².
- (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

Before generating new data, you must agree within the joint submission on the chemical composition of the material to be tested (Test Material) which must be relevant for all the registrants of the Substance.

(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 variation in compositions reported by all members of the joint submission,
- the boundary composition(s) of the Substance,
- the impact of each constituent/ impurity on the test results for the endpoint to be assessed. For example, if a constituent/ impurity of the Substance is known to have an impact on (eco)toxicity, the selected Test Material must contain that constituent/ impurity.
- (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 all constituents of each Test Material and their concentration values.

² <u>https://echa.europa.eu/practical-guides</u>



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 (https://echa.europa.eu/manuals).

2. General recommendations for conducting and reporting new tests

2.2. Environmental testing for substances containing multiple constituents

Your Substance contains multiple constituents and, as indicated in Guidance on IRs & CSA, Section R.11.4.2.2, you are advised to consider the following approaches for persistency, bioaccumulation and aquatic toxicity testing:

- the "known constituents approach" (by assessing specific constituents), or
- the "fraction/block approach, (performed on the basis of fractions/blocks of constituents), or
- the "whole substance approach", or
- various combinations of the approaches described above

Selection of the appropriate approach must take into account the possibility to characterise the Substance (i.e. knowledge of its constituents and/or fractions and any differences in their properties) and the possibility to isolate or synthesize its relevant constituents and/or fractions.

References to Guidance on REACH and other supporting documents can be found in Appendix 1.