

Helsinki, 1 June 2021

Addressees

Registrant of JS_Di2EHTDG as listed in the last Appendix of this decision

Date of submission of the dossier subject to this decision 18/01/2016

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

Substance name: Bis(2-ethylhexyl) 2,2'-thiobisacetate EC number: 246-131-9 CAS number: 24293-43-4

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

DECISION ON A COMPLIANCE CHECK

Under Article 41 of Regulation (EC) No 1907/2006 (REACH), you must submit the information listed below, by the deadline of **8** June 2022.

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

A. Information required from all the Registrants subject to Annex VII of REACH

1. Long-term toxicity testing on aquatic invertebrates (triggered by Annex VII, Section 9.1.1., column 2)

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

- 1. Short-term repeated dose toxicity (28 days; Annex VIII, Section 8.6.1.) to be combined with the Screening for reproductive/developmental toxicity below
- 2. Screening for reproductive/developmental toxicity (Annex VIII, Section 8.7.1.; test method: EU B.64/OECD TG 422) by oral route, in rats
- 3. Long-term toxicity testing on fish (triggered by Annex VIII, Section 9.1.3., column 2)

Reasons for the request(s) are explained in the following appendices:

- Appendix entitled "Reasons common to several requests";
- Appendices entitled "Reasons to request information required under Annexes VII to VIII of REACH", respectively.

Information required depends on your tonnage band

You must provide the information listed above for all REACH Annexes applicable to you, and in accordance with Articles 10(a) and 12(1) of REACH:

 the information specified in Annexes VII and VIII to REACH, for registration at 10-100 tpa.



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 testing and reporting requirements provided under the Appendix entitled "Requirements to fulfil when conducting and reporting new tests for REACH purposes". In addition, you should follow the general recommendations provided under the Appendix entitled "General recommendations when conducting and reporting new tests for REACH purposes". For references used in this decision, please consult the Appendix entitled "List of references".

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 Christel Schilliger-Musset, Director of Hazard Assessment

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 on Reasons common to several requests

1. Assessment of your substance-tailored exposure-driven testing adaptation under Annex XI, Section 3.2 (a)

You have sought to adapt the standard information requirements according to Annex XI, Section 3.2 (a) Substance-tailored exposure-driven testing for the following endpoints:

- Short-term repeated dose toxicity (28 day), (Annex VIII, Section 8.6.1.)
- Screening for reproductive/developmental toxicity (Annex VIII, Section 8.7.1.)

As stated in Annex XI, Section 3, testing in accordance with Sections 8.6 and 8.7 of Annex VIII may be omitted based on the exposure scenario(s) developed in the CSR. For this purpose, the manufacturer or importer must provide an adequate and scientifically-supported justification based on a thorough and rigorous exposure assessment in accordance with Section 5 of Annex I and communicate the specific conditions of use through the supply chain. In this context, one of the criteria that must be met is set out under Section 3.2(a) of Annex XI. According to that criterion, the manufacturer or importer shall demonstrate and document three cumulative conditions concerning i) the results of the exposure assessment; ii) the derivation of a suitable, releavant and appropriate DNEL or a PNEC and; iii) the comparison of the derived DNEL or PNEC with the results of the exposure assessment.

You have provided an adaptation in Section 7.5 and 7.8 of your technical dossier, and you conclude that "no significant exposure occurs in all scenarios of manufacture and identified uses. In a worst case scenario a very conservative oral DNEL based on the TTC concept for chronic toxicity was choosen for Di-2-EHTDG, a Cramer class 1 substance".

You have sought to adapt the standard information requirement according to Annex XI, Section 3.2 (a) Substance-tailored exposure-driven testing.

You provided the following justification for the adaptation:

"No significant exposure in all scenarios of the manufacture and all identified uses were identified. As a basis for exposure-based waiving, the TTC concept as devised by Munro et al. [1996 and 1999] is applied. Di-2 -EHTDG is predicted to fall within Cramer Class I (low hazard). Within Cramer class I, the 5th-percentile NOEL has been identified from chronic oral studies or other oral studies e.g., developmental toxicity, if they were more sensitive. The majority of NOELs were defined by studies in the rat. The generic oral NOEL applicable to Di-2 -EHTDG (Class I) is 3.0 mg/kg bw/day corresponding to a very low DNEL of 30 µg/kg bw/d. The exposure values are well below the derived DNEL or PNEC."

ECHA notes the following shortcoming(s) with regards to your adaptation according to Annex XI, Section 3.2 (a) Substance-tailored exposure-driven testing:

i. Insufficient demonstration of the absence of or no significant exposure in all scenarios of the manufacture and all identified uses

The first cumulative condition under Annex XI, Section 3.2(a) requires that the results of the exposure assessment covering all relevant exposures throughout the life cycle of the substance demonstrate the absence of or no significant exposure in all scenarios of the manufacture and all identified uses as referred to in Annex VI section 3.5.

You did not provide adequate and reliable documentation demonstrating the "absence of or no significant exposure in all scenarios of the manufacture and all identified uses".

You have developed exposure scenarios in your CSR. Several exposure scenarios indicate potential for exposure in your provided exposure scenarios. For example, for dermal exposure



(the only route you have assessed and stated as a relevant exposure route), the systemic long-term exposure estimates calculated with ECETOC TRA v. 3 are 0.021 mg/kg bw/day and the RCRs values are **area** for PROC 3 in formulation and in industrial uses.

Therefore the first cumulative condition under Annex XI, Section 3.2(a) cannot be fulfilled.

ii. Inappropriate DNEL derivation

The second cumulative condition under Annex XI, Section 3.2(a) requires that a suitable DNEL or a PNEC can be derived from results of available test data for the Substance taking full account of the increased uncertainty resulting from the omission of the information requirement, and that DNEL or PNEC is relevant and appropriate both to the information requirement to be omitted and for risk assessment purposes.

ECHA notes that the DNEL in your dossier is based on a threshold of toxicological concern (TTC) approach (see Appendix R.7-1 of ECHA Guidance R.7c), and not derived from results of available test data for the Substance.

Therefore, the second cumulative condition under Annex XI, Section 3.2(a) cannot be fulfilled.

iii. Insufficient PPE description

The third cumulative condition under Annex XI, Section 3.2(a) requires that the comparison of the derived DNEL or PNEC with the results of the exposure assessment shows that exposures are always well below the derived DNEL or PNEC.

You have concluded that all the operations are carried out with special care to minimise the risk to the workers and the skin exposure is prevented with the use of adequate protection equipment, and thus the risk of exposure is considered to be adequately controlled. However, ECHA notes, that you have not described the adequate PPE sufficiently and the quantitative and qualitative assessment are not in line in your CSR. According to ECHA Guidance R.14, PPE provided to address residual risk must be suitable (i.e. the right type of equipment taking into account operational conditions and personal factors) and adequate (i.e. capable of providing the right level of protection) and associated with appropriate levels of instruction and training. Annex II, Section 8.2.2 describes the detailed specifications for adequate and suitable protection (which would be for hand protection the type of material and typical or minimum breakthrough time of the glove material).

Therefore, the third cumulative condition under Annex XI, Section 3.2(a) cannot be fulfilled.

Based on the above, the information you provided in the dossier does not meet the general rules for adaptation of Annex XI, Section 3.2(a), as none of the cumulative conditions of that adaptation are currently fulfilled.

Therefore your adaptation is rejected.

2. Category approach proposed in your comments to the draft decision

In your comments to the draft decision, you indicate your intention to use a category approach for "Mercaptocarboxylic acids, their esters and related compounds" by conducting mechanistic assays *in vitro* to address the repeated dose toxicity and reproductive toxicity and pre-natal developmental toxicity endpoints.

The information in your comments is not sufficient for ECHA to make an assessment, because you have not provided new supporting (experimental) data to support a read-across adaptation.



ECHA notes that mechanistic data may partially support your read-across hypothesis if they are relevant to the endpoints of interest, but they do not have the same value as bridging studies for the comparison of effects between substances since *in vitro* mechanistic studies may, for instance, not reflect similarities or differences in absorption or metabolism of the substances.

ECHA cannot conclude on the reliability of the read-across approach proposed in the comments because the acceptability will depend on the outcome of the proposed studies and the relevance of the supporting information.

Please note that this decision does not take into account updates of the registration dossiers after the date on which you were notified of the draft decision according to Article 50(1) of REACH (see section 5.4. of ECHA's Practical Guide "How to act in Dossier Evaluation").



Appendix A: Reasons to request information required under Annex VII of REACH

1. Long-term toxicity testing on aquatic invertebrates (triggered by Annex VII, Section 9.1.1., column 2)

Short-term toxicity testing on aquatic invertebrates is an information requirement under Annex VII to REACH (Section 9.1.1.). Long-term toxicity testing on aquatic invertebrates must be considered (Section 9.1.1., Column 2) if the substance is poorly water soluble.

You have provided an OECD TG 202 study but no information on long-term toxicity on aquatic invertebrates for the Substance.

We have assessed this information and identified the following issue:

Poorly water soluble substances require longer time to reach steady-state conditions. As a result, the short-term tests does not give a true measure of toxicity for this type of substances and the long-term test is required. A substance is regarded as poorly water soluble if, for instance, it has a water solubility below 1 mg/L or below the detection limit of the analytical method of the test material (ECHA Guidance R.7b, Section 7.8.5).

You have provided information which indicate that the Substance is poorly water soluble (water solubility < 1 mg/L at 20°C).

Therefore, information on long-term toxicity on aquatic invertebrates must be provided.

In your comments to the draft decision, you acknowledge the data gap for this information requirement. You explain your intention to develop a category approach for the Substance and other related substances. The information in your comments is not sufficient for ECHA to make an assessment, because you have not provided specific details on the definition of this category, your planned testing strategy and in particular whether you intend to perfom the test with the Substance. You indicate that you work on this approach is ongoing.

Please note that this decision does not take into account updates of the registration dossiers after the date on which you were notified of the draft decision according to Article 50(1) of REACH (see section 5.4. of ECHA's Practical Guide "How to act in Dossier Evaluation).

Study design

The Substance is difficult to test due to the low water solubility (< 1 mg/L at 20°C) and adsorptive properties (log Kow >6.5). OECD TG 211 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 concentration (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 211. 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 solutions.



Appendix B: Reasons to request information required under Annex VIII of REACH

1. Short-term repeated dose toxicity (28 days)

A Short-term repeated dose toxicity study (28 days) is a standard information requirement in Annex VIII (Section 8.6.1.) to REACH.

You have adapted the standard information requirement mentioned above according to Annex XI, Section 3. of REACH.

As explained in the Appendix on Reasons common to several requests, your adaptation is rejected and ECHA cannot conclude on the reliability of the read-across approach proposed in your comments.

Based on the above, the information you provided does not fulfil the information requirement.

Information on study design

Referring to the criteria provided in Annex VIII, Section 8.6.1, Column 2, the oral route is the most appropriate route of administration to investigate repeated dose toxicity, because the substance is a solid, not present in particulate form.

REACH Annex VIII, Section 8.6.1. refers to short-term repeated dose toxicity (28 days), which can be tested by the oral route according to the test methods OECD TG 407 or 422. REACH Annex VIII, Section 8.7.1. refers to screening studies for reproductive/ developmental toxicity according to the test methods OECD TG 421 or 422. As pointed out below in section B.2 of this decision, the information provided under Annex VIII, Section 8.7.1. does not fulfil the information requirement for reproductive/developmental toxicity and therefore there is an information gap. To prevent unnecessary animal testing, an OECD TG 422 study is more appropriate to fulfil the information requirements of both Sections 8.6.1. and 8.7.1. of Annex VIII, as it provides initial information on reproductive/developmental toxicity and on short-term repeated dose toxicity.

Therefore the study must be performed according to the OECD TG 422, in rats and with oral administration of the Substance.

2. Screening study for reproductive/developmental toxicity

A Screening for reproductive/developmental toxicity study (test method: EU B.63/OECD TG 421 or EU B.64/OECD TG 422) is a standard information requirement under Annex VIII to REACH, if there is no evidence from analogue substances, QSAR or *in vitro* methods that the Substance may be a developmental toxicant. There is no information available in your dossier indicating that your Substance may be a developmental toxicant.

You have adapted the standard information requirement mentioned above according to Annex XI, Section 3. of REACH.

As explained in the Appendix on Reasons common to several requests, your adaptation is rejected and ECHA cannot conclude on the reliability of the read-across approach proposed in your comments.

Based on the above, the information you provided does not fulfil the information requirement.

Information on study design

A study according to the test method EU B.64/OECD TG 422 must be performed in rats with

oral² administration of the Substance, as already explained above.

3. Long-term toxicity testing on fish (triggered by Annex VIII, Section 9.1.3., column 2)

Short-term toxicity testing on fish is a standard information requirement in Annex VIII to REACH (Annex VIII, Section 9.1.3). Long-term toxicity testing on fish must be considered (Section 9.1.3., Column 2) if the substance is poorly water soluble.

You have provided an OECD TG 203 study but no information on long-term toxicity on fish for the Substance.

We have assessed this information and identified the following issue:

Poorly water soluble substances require longer time to reach steady-state conditions. As a result, the short-term tests does not give a true measure of toxicity for this type of substances and the long-term test is required. A substance is regarded as poorly water soluble if, for instance, it has a water solubility below 1 mg/L or below the detection limit of the analytical method of the test material (ECHA Guidance R.7b, Section 7.8.5).

You have provided information which indicate that the Substance is poorly water soluble (water solubility < 1 mg/L at 20° C).

Therefore, information on long-term toxicity on fish must be provided.

In your comments to the draft decision, you acknowledge the data gap for this information requirement. You explain your intention to develop a category approach for the Substance and other related substances. The information in your comments is not sufficient for ECHA to make an assessment, because you have not provided specific details on the definition of this category, your planned testing strategy and in particular whether you intend to perfom the test with the Substance. You indicate that you work on this approach is ongoing.

Please note that this decision does not take into account updates of the registration dossiers after the date on which you were notified of the draft decision according to Article 50(1) of REACH (see section 5.4. of ECHA's Practical Guide "How to act in Dossier Evaluation).

Study design

To fulfil the information requirement for the Substance, the Fish, Early-life Stage Toxicity Test (test method OECD TG 210) is the most appropriate (ECHA Guidance R.7.8.2.).

The Substance is difficult to test due to the low water solubility (< 1 mg/L at 20°C) and adsorptive properties (log Kow >6.5). 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 solutions.

² ECHA Guidance R.7a, Section R.7.6.2.3.2.



Appendix C: Requirements to fulfil when conducting and reporting new tests for REACH purposes

A. Test methods, GLP requirements and reporting

- 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.
- 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 summaries³.

B. 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/ 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 and other parameters relevant for the property to be tested.

This information is needed to assess whether the Test Material is relevant for the Substance.

Technical instructions on how to report the above is available in the manual on How to prepare registration and PPORD dossiers⁴.

³ https://echa.europa.eu/practical-guides

⁴ https://echa.europa.eu/manuals



Appendix D: 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 11 December 2019.

The decision making followed the procedure of Article 51 of the REACH Regulation, as described below:

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

ECHA took into account your comments and did not amend the requests and the deadline.

The timeline indicated in the draft decision to provide the information requested is 12 months from the date of the decision.

In your comments to the draft decision, you requested an unspecified extension of the timeline for providing a read-across adaptation, stating the following: "Our intention is to constantly improve and optimize our strategy in the next years. We would like to further develop a strategy for a Category Approach: Mercaptocarboxylic acids, their esters and related compounds. This is a long and tedious process and we are glad to have the support from our former consultants working with us during the last registration periods. However, we see a risk not to comply with the timelines set in the draft decisions.". You also mention difficulties for small size companies compared to bigger companies large consortia considering their respective resources available.

However, you did not provide any documentation to support your request and did not specify the extra time needed. Furthermore, ECHA observes that the studies you proposed to perform were not requested in the draft decision on the Substance. The present decision does not require you to perform such studies and thereby the imposed deadlines cannot be affected. In addition, all the tests requested may be conducted in parallel and thus the deadline indicated is still considered adequate.

On this basis, ECHA has not modified the deadline to provide the information.

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 E: List of references - ECHA Guidance⁵ and other supporting documents

Evaluation of available information

Guidance on information requirements and chemical safety assessment, Chapter R.4 (version 1.1., December 2011), referred to as ECHA Guidance R.4 where relevant.

QSARs, read-across and grouping

Guidance on information requirements and chemical safety assessment, Chapter R.6 (version 1.0, May 2008), referred to as ECHA Guidance R.6 where relevant.

Read-across assessment framework (RAAF, March 2017)⁶

RAAF - considerations on multiconstituent substances and UVCBs (RAAF UVCB, March 2017)⁶

Physical-chemical properties

Guidance on information requirements and chemical safety assessment, Chapter R.7a (version 6.0, July 2017), referred to as ECHA Guidance R.7a in this decision.

Toxicology

Guidance on information requirements and chemical safety assessment, Chapter R.7a (version 6.0, July 2017), referred to as ECHA Guidance R.7a in this decision.

Guidance on information requirements and chemical safety assessment, Chapter R.7c (version 3.0, June 2017), referred to as ECHA Guidance R.7c in this decision.

Environmental toxicology and fate

Guidance on information requirements and chemical safety assessment, Chapter R.7a (version 6.0, July 2017), referred to as ECHA Guidance R.7a in this decision.

Guidance on information requirements and chemical safety assessment, Chapter R.7b (version 4.0, June 2017), referred to as ECHA Guidance R.7b in this decision.

Guidance on information requirements and chemical safety assessment, Chapter R.7c (version 3.0, June 2017), referred to as ECHA Guidance R.7c in this decision.

PBT assessment

Guidance on information requirements and chemical safety assessment, Chapter R.11 (version 3.0, June 2017), referred to as ECHA Guidance R.11 in this decision.

Guidance on information requirements and chemical safety assessment, Chapter R.16 (version 3.0, February 2016), referred to as ECHA Guidance R.16 in this decision.

Occupational exposure assessment

Guidance on information requirements and chemical safety assessment, Chapter R.14 (Version 3.0, August 2016), referred to as ECHA Guidance R.14 in this decision.

Data sharing

Guidance on data-sharing (version 3.1, January 2017), referred to as ECHA Guidance on data sharing in this decision.

⁵ <u>https://echa.europa.eu/guidance-documents/guidance-on-information-requirements-and-chemical-safety-assessment</u>

⁶ https://echa.europa.eu/support/registration/how-to-avoid-unnecessarγ-testing-on-animals/grouping-ofsubstances-and-read-across



OECD Guidance documents⁷

Guidance Document on aqueous-phase aquatic toxicity testing of difficult test chemicals – No 23, referred to as OECD GD 23.

Guidance document on transformation/dissolution of metals and metal compounds in aqueous media – No 29, referred to as OECD GD 29.

Guidance Document on Standardised Test Guidelines for Evaluating Chemicals for Endocrine Disruption – No 150, referred to as OECD GD 150.

Guidance Document supporting OECD test guideline 443 on the extended one-generation reproductive toxicity test – No 151, referred to as OECD GD 151.

⁷ http://www.oecd.org/chemicalsafety/testing/series-testing-assessment-publications-number.htm



Appendix F: Addressees of this decision and the corresponding information requirements applicable to them

You must provide the information requested in this decision for all REACH Annexes applicable to you.

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.