

Helsinki, 17 May 2024

Addressee(s)

Registrant(s) of JS_OB199_1_235-834-6 as listed in Appendix 3 of this decision

Date of submission of the dossier subject to this decision

20 October 2022

Registered substance subject to this decision ("the Substance")Substance name: 2-[2-[4-[2-(4-cyanophenyl)vinyl]phenyl]vinyl]benzotrile
EC/List number: 235-834-6**Decision number:** Please refer to the REACH-IT message which delivered this communication (in format CCH-D-XXXXXXXXXX-XX-XX/F)**DECISION ON A COMPLIANCE CHECK**Under Article 41 of Regulation (EC) No 1907/2006 (REACH), you must submit the information listed below by **24 November 2025**.

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

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

1. Skin sensitisation (Annex VII, Section 8.3.)
 - a) *in vitro/in chemico* skin sensitisation information on molecular interactions with skin proteins (OECD TG 442C), inflammatory response in keratinocytes (OECD TG 442D) and activation of dendritic cells (OECD TG 442E) (Annex VII, Section 8.3.1.); and
 - b) only if the *in vitro/in chemico* test methods specified under point a) above are not applicable for the Substance or the results obtained are not adequate for classification and risk assessment, *in vivo* skin sensitisation (Annex VII, Section 8.3.2.; test method: EU B.42./OECD TG 429).
2. In vitro gene mutation study in bacteria (Annex VII, Section 8.4.1.; test method: OECD TG 471, 2020)
3. Long-term toxicity testing on aquatic invertebrates (triggered by Annex VII, Section 9.1.1., Column 2; test method: EU C.20./OECD TG 211).
4. Growth inhibition study on aquatic plants (Annex VII, Section 9.1.2.; test method: EU C.3/OECD TG 201).

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.

The request 4 does not apply to registrants with registration number 01-2120734580-59-0004, because it opted out from the joint submission for that specific information requirement. The information has been requested from that registrant in another decision specifically addressed to it based on the assessment of the information submitted separately.

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.

Appendix 1: Reasons for the request(s)

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Reasons common to several requests

0.1. Read-across adaptation rejected

- 1 You have adapted the following standard information requirements by using grouping and read-across approach under Annex XI, Section 1.5.:
- Skin sensitisation (Annex VII, Section 8.3.)
 - *In vitro* gene mutation study in bacteria (Annex VII, Section 8.4.1.)
 - Growth inhibition study aquatic plants (Annex VII, Section 9.1.2.)
- 2 In your comments to the draft decision you indicate that you also intend to adapt Long-term toxicity study in aquatic invertebrates by using read-across approach under Annex AI, Section 1.5.
- 3 ECHA has considered the scientific and regulatory validity of your read-across approach(es) in general before assessing the specific standard information requirements in the following sections.
- 4 Annex XI, Section 1.5. specifies two conditions which must be fulfilled whenever a read-across 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.
- 5 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).

0.1.1. Predictions for (eco)toxicological properties

- 6 You provide a read-across justification document in IUCLID Section 13.
- 7 You predict the properties of the Substance from information obtained from the following source substance(s):
- 3-(2-(4-(2-(4-cyanophenyl)ethenyl)phenyl)ethenyl)benzo nitrile, EC 419-060-8 (source substance).
- 8 You provide the following reasoning for the prediction of (eco)toxicological/environmental fate properties: "*the properties of the target substance are predicted based on the results available on a small number of structurally similar substances where there is no trend or regular pattern of the properties. The scenario of biotransformation to common compounds is justified based on the toxicokinetics of the target and analogue substances (absorption, distribution, metabolism, excretion) to common/similar metabolites.*"
- 9 ECHA understands that your read-across hypothesis is based on the formation of common/similar (bio)transformation products and assumes that different compounds have the same type of effects. You predict the properties of your Substance to be quantitatively equal to those of the source substance.

0.1.1.1. Missing supporting information on the formation of common compound

- 10 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 provide

supporting information to scientifically justify the read-across explanation for prediction of properties. The set of supporting information should strengthen the rationale for the read-across in allowing to verify the crucial aspects of the read-across hypothesis and establishing that the properties of the Substance can be predicted from the data on the source substance(s) (Guidance on IRs and CSA R.6., Section R.6.2.2.1.f.).

- 11 Supporting information must include amongst others, toxicokinetic information on the formation of the common/similar compound.
- 12 As indicated above, your read-across hypothesis is based on the (bio)transformation of the Substance and of the source substance(s) to common/similar metabolite(s). In this context, information characterising the rate and extent of the (bio)transformation of the source substance(s) is necessary to confirm the formation of the proposed common (bio)transformation product and to assess the impact of the exposure to the parent compounds.
- 13 You provide a prediction of potential metabolites formed from the Substance based on simulated rat liver S9, skin and microbial metabolism (OECD QSAR Toolbox) and report six main metabolites.
- 14 However, you have not provided any information on the source substance or experimental information about the (bio)transformation of the Substance nor the source substance to support your claims regarding formation of common/similar compounds.
- 15 In the absence of this information, you have not provided supporting evidence establishing that the proposed common/similar (bio)transformation product(s) is/are formed as assumed in your read-across hypothesis. The predicted metabolites of the Substance indicate that the structural difference between the source substance and the Substance, i.e. the substitution in ortho or meta position, will remain also in the metabolites formed. You have not provided any evidence demonstrating that this structural difference will not cause differences in the properties of these substances.
- 16 Therefore, you have not provided sufficient supporting information to scientifically justify your read-across hypothesis.

0.1.1.2. Missing supporting information to compare properties of the substances(s)

- 17 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 provide supporting information to scientifically justify the read-across explanation for prediction of properties. The set of supporting information should strengthen the rationale for the read-across in allowing to verify the crucial aspects of the read-across hypothesis and establishing that the properties of the Substance can be predicted from the data on the source substance(s) (Guidance on IRs and CSA R.6., Section R.6.2.2.1.f.).
- 18 Supporting information must include amongst others, bridging studies to compare properties of the Substance and the source substance(s).
- 19 As indicated above, your read-across hypothesis is based on the assumption that the structurally similar source substance cause the same type of effect(s). In this context, relevant, reliable and adequate information allowing to compare the properties of the source substance(s) is necessary to confirm that the substances cause the same type of effects. Such information can be obtained, for example, from bridging studies of comparable design and duration for the Substance and of the source substance(s).
- 20 For the source substance, you provide the study used in the prediction in the registration dossier. Apart from that study, your read-across justification or the registration dossier do not include any robust study summaries or descriptions of data for the Substance that would

confirm that both substances cause the same type of effects. To confirm the reliability of the adopted read across strategy, mainly for endpoints of skin sensitisation and genotoxicity, computational tools as implemented in OECD QSAR Toolbox were applied to all substances. Based on the general mechanistic estimation, no alerts were identified on the genotoxic potential of all substances. However, the presence or absence of alerts is not a replacement for bridging data. Furthermore, you provided no documentation for your profilers.

- 21 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.
- 22 In your comments to the draft decision, you do not agree to perform the studies under request 1, 2, 3 and 4. Instead, you express your intention to adapt these information requirements by means of grouping and read-across according to Annex XI, Section 1.5, of the REACH Regulation as following.
- 23 You are referring to a group (category) of three substances. Your intended read across approach includes as category members aside the Substance, the source substance on which you relied on under your initial read-across adaptation, namely the substance 3-(2-(4-(2-(4-cyanophenyl)ethenyl)phenyl)ethenyl)benzo nitrile, EC 419-060-8 (source substance); as well as a new source substance, namely the substance EC 235-835-1.
- 24 You propose to predict the (eco)toxicological properties of the Substance from studies that are yet to be generated on category member EC 235-835-1 for request 1, 2 and 4 as well as on category members EC 235-835-1 and 419-060-8 for request 3.
- 25 More in particular, in your comments, you state the following: *"For analogue substance 1, same studies as for the target substance, have been requested in another compliance check assessment, for which the lead and co-registrants decided to perform all requested tests. The choice of specifically testing EC 235-835-1 comes from the position of the ciano groups that in analogue substance 1 are both in ortho to the double bonds. By testing this chemical, the influence of the ortho position to the double bonds can be experimentally demonstrated and combined with the results from analogue substance 2 (EC 419-060-8), where the ciano groups are in para and meta position."*
- 26 You further indicate that EC 419-060-8 *"received as well a compliance check final decision, stating, among others, to test - Long-term toxicity testing on aquatic invertebrates (...). The request is the same as for analogue substance 1 (in terms of information requirements and study design) and the target substance and the results will be used to complete the data matrix for the long-term toxicity to aquatic invertebrates endpoint"*.
- 27 As your read across strategy relies essentially on data which is yet to be generated for the proposed category member(s), no conclusion on the compliance of your intended adaptation can currently be made. You remain responsible for complying with this decision by the set deadline.

0.1.2. 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 approaches under Annex XI, Section 1.5. are rejected.

Reasons related to the information under Annex VII of REACH

1. Skin sensitisation

29 Skin sensitisation is an information requirement under Annex VII, Section 8.3. Under Section 8.3., Column 1, the registrants must submit information allowing (1) a conclusion whether the substance is a skin sensitiser and (2) whether it can be presumed to have the potential to produce significant sensitisation in humans (Cat. 1A).

1.1. Information provided

30 You have adapted this information requirement by using Annex XI, Section 1.5. (grouping of substances and read-across approach) based on the following experimental data:

- (i) an OECD 406 (2000) with the source substance EC 419-060-8.

1.2. Assessment of the information provided

1.2.1. Assessment whether the Substance causes skin sensitisation

31 As explained in Section 0.1., your adaptation based on grouping of substances and read-across approach under Annex XI, Section 1.5. is rejected.

32 On this basis, the information provided does not contribute to the assessment whether the Substance causes skin sensitisation.

1.2.2. No assessment of potency

33 To be considered compliant and enable a conclusion in cases where the substance is considered to cause skin sensitisation, the information provided must also allow a conclusion whether it can be presumed to have the potential to produce significant sensitisation in humans (Cat. 1A).

34 As the currently available data does not allow to conclude whether the Substance causes skin sensitisation (see section 1.2.1. above), this condition cannot be assessed.

35 Therefore, the information requirement is not fulfilled.

36 Your comments to the draft decision are addressed under section 0.1.1 of this decision.

1.3. Study design

37 To fulfil the information requirement for the Substance, information on molecular interaction with skin proteins and inflammatory response in keratinocytes and activation of dendritic cells (OECD TG 442C and OECD TG 442D and OECD TG 442E) must be provided. Furthermore an appropriate risk assessment is required if a classification of the Substance as a skin sensitiser (Cat 1A or 1B) is warranted.

38 In case no conclusion on the skin sensitisation potency can be made for the Substance based on the newly generated *in vitro* data, *in vivo* skin sensitisation study must be performed and the murine local lymph node assay (EU Method B.42/OECD TG 429) is considered as the appropriate study for the potency estimation.

2. In vitro gene mutation study in bacteria

39 An *in vitro* gene mutation study in bacteria is an information requirement under Annex VII, Section 8.4.1.

2.1. Information provided

40 You have adapted this information requirement by using Annex XI, Section 1.5. (grouping of substances and read-across approach) based on the following experimental data:

- (i) an *in vitro* gene mutation study in bacteria (2000) with the source substance EC 419-060-8.

2.2. Assessment of the information provided

41 As explained in Section 0.1., your adaptation based on grouping of substances and read-across approach under Annex XI, Section 1.5. is rejected.

42 Therefore, the information requirement is not fulfilled.

43 Your comments to the draft decision are addressed under section 0.1.1 of this decision.

2.3. Study design

44 To fulfil the information requirement for the Substance, information on *in vitro* gene mutation study in bacteria (Annex VII, Section 8.4.1.; test method: Bacterial reverse mutation test, OECD TG 471 (2020)) must be provided.

3. Long-term toxicity testing on aquatic invertebrates

45 Short-term toxicity testing on aquatic invertebrates is an information requirement under Annex VII, Column 1, Section 9.1.1. However, under Column 2, long-term toxicity testing on aquatic invertebrates may be required by the Agency if the substance is poorly water soluble, i.e. solubility below 1 mg/L.

3.1. Triggering of the information requirement

46 In your technical dossier, you provide for the information requirement of water solubility a weight of evidence approach indicating that the saturation concentration of the Substance in water is 0.024 mg/L.

47 Therefore, the Substance is poorly water soluble and information on long-term toxicity on aquatic invertebrates must be provided.

3.2. Information requirement not fulfilled

48 You have provided a short-term toxicity study on aquatic invertebrates but no information on long-term toxicity on aquatic invertebrates for the Substance.

49 In your comments to the draft decision, you do not agree to perform the requested study. Instead, you intend to adapt this information requirement by means of grouping and read-across according to Annex XI, Section 1.5, of the REACH Regulation.

50 Your comments to the draft decision are addressed under section 0.1.1 of this decision.

51 Therefore, the information requirement is not fulfilled.

3.3. Study design

52 The Substance is difficult to test due to the low water solubility 0.024 mg/L. The OECD TG 211 specifies that, for difficult to test substances, you must consider the approach described

in the 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 the 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 solution.

4. Growth inhibition study aquatic plants

53 Growth inhibition study on aquatic plants is an information requirement under Annex VII to REACH (Section 9.1.2.).

4.1. Information provided

54 You have adapted this information requirement by using Annex XI, Section 1.5. (grouping of substances and read-across approach) based on the following experimental data:

- (i) Growth inhibition study on algae (2000) with the source substance, EC 419-060-8;

4.2. Assessment of the information provided

55 As explained in Section 0.1., your adaptation based on grouping of substances and read-across approach under Annex XI, Section 1.5. is rejected.

56 Your comments to the draft decision are addressed under section 0.1.1 of this decision.

57 Therefore, the information requirement is not fulfilled.

4.3. Study design

58 The OECD TG 201 specifies that, for difficult to test substances, the OECD GD 23 must be followed. As already explained above, the Substance is difficult to test. Therefore, you must fulfil the requirements described in "Study design" under request 3.

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 (2023).

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)

- 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 24 January 2023.

The deadline of the decision is set based on standard practice for carrying out OECD TG tests. It has been exceptionally extended by 6 months from the standard deadline granted by ECHA to take into account currently longer lead times in contract research organisations.

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) or the deadline.

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
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

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

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.

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>).