

**IN THE UNITED STATES COURT OF APPEALS  
FOR THE DISTRICT OF COLUMBIA**

VINYL INSTITUTE, INC., )  
 )  
 Petitioner, )  
 )  
 v. )  
 )  
 UNITED STATES ENVIRONMENTAL )  
 PROTECTION AGENCY, )  
 )  
 Respondent. )  
 )  
 )  
 \_\_\_\_\_ )

22-1089

**PETITION FOR REVIEW**

Pursuant to 15 U.S.C. § 2618 of the Toxic Substances Control Act (“TSCA”), Fed. R. App. P. 15(a), and Circuit Rule 15(a), Petitioner Vinyl Institute, Inc. (“VI”), hereby petitions the Court for review of the United States Environmental Protection Agency’s (“EPA”) *Order Under Section 4(a)(2) of the Toxic Substances Control Act* (“Test Order”), issued on March 24, 2022, and with an effective date of March 29, 2022. The Test Order is attached hereto as **Exhibit A**. This Court has jurisdiction and is the proper venue for these proceedings pursuant to 15 U.S.C. § 2618(a)(1)(A).

The Test Order requires designated companies to develop certain information regarding 1,1,2-trichloroethane that EPA maintains is necessary to perform a risk evaluation under TSCA Section 6(b) (*see* 15 U.S.C. § 2605(b)). VI

member companies are among those companies required by the Test Order to develop information, and the VI manages a consortium that will respond to the Test Order.

The VI seeks judicial review of the Test Order under federal law, including but not limited to the Administrative Procedure Act, 5 U.S.C. § 701 *et seq.* (“APA”), the Toxic Substances Control Act, 15 U.S.C. § 2601, *et seq.*, and EPA’s regulations promulgated thereunder.

The VI seeks a determination by this Court that, *inter alia*, the Test Rule: (i) violates the above-referenced authorities; (ii) is arbitrary, capricious, an abuse of discretion, and otherwise not in accordance with the law; (iii) is in excess of statutory jurisdiction, authority, or limitations, or short of statutory right; (iv) is without observance of procedure required by law; (v) is unsupported by substantial evidence (*see* 15 U.S.C. § 2618(c)); and (vi) is otherwise contrary to law.

Accordingly, the VI respectfully requests that this Court hold unlawful, vacate, enjoin, set aside, and remand the Test Order, and grant such other relief as the Court may deem appropriate.

Respectfully submitted,

/s/ Eric P. Gotting

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*Counsel for Vinyl Institute, Inc.*

Dated: May 23, 2022

## **CORPORATE DISCLOSURE STATEMENT**

Pursuant to Fed. R. App. P. 26.1 and Circuit Rule 26.1, Petitioner Vinyl Institute, Inc. (“VI”) submits this corporate disclosure statement. The VI is a trade association representing the interests of the leading manufacturers of vinyl, vinyl chloride monomer, vinyl additives and modifiers, and vinyl packaging materials. It is incorporated under the not-for-profit corporation laws of the District of Columbia. The VI has no parent companies and has not issued any shares or debt securities to the public.

Dated: May 23, 2022

/s/ Eric P. Gotting

## CERTIFICATE OF SERVICE

I hereby certify that, on May 23, 2022, I sent file-stamped copies of the forgoing Petition for Review to the following parties by the manner indicated:

*By Certified Mail, Return Receipt Requested*  
The Honorable Michael S. Regan  
Administrator  
U.S. Environmental Protection Agency  
William Jefferson Clinton Building  
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Washington, D.C. 20004

*By Certified Mail, Return Receipt Requested*  
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*By Certified Mail, Return Receipt Requested*  
Merrick B. Garland  
Attorney General of the United States  
U.S. Department of Justice  
950 Pennsylvania Avenue, N.W.  
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Pursuant to 15 U.S.C. § 2618(a)(2), the Clerk of Court is respectfully requested to transmit this Petition for Review to the EPA Administrator and the Attorney General of the United States.

Dated: May 23, 2022

/s/ Eric P. Gotting

## **EXHIBIT A**

U.S. Environmental Protection Agency, *Order Under Section 4(a)(2) of the Toxic Substances Control Act* (March 24, 2022)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

March 24, 2022

**Order Under Section 4(a)(2) of the Toxic Substances Control Act**

**Chemical Substance Subject to this Order:**

**Chemical Name:** 1,1,2-Trichloroethane

**Chemical Abstracts Service Registry Number (CASRN):** 79-00-5

**Docket Identification (ID) Number:** EPA-HQ-OPPT-2018-0421<sup>1</sup>

**Testing Required by this Order:**

1. Environmental Hazard

- Earthworm Reproduction Test (*Eisenia fetida/Eisenia andrei*)
- Avian Reproduction Test

**Recipients of this Order:**

**Company Name:** C-K TECH INC

**Company Name:** KEM KREST LLC

**Company Name:** FORMOSA PLASTICS CORP USA

**Company Name:** HAAS GROUP INTERNATIONAL

**Company Name:** OCCIDENTAL CHEMICAL HOLDING CORP

**Company Name:** OLIN CORP

**Company Name:** WESTLAKE CHEMICAL CORP

Dear Recipient:

This Order requires you and the other named manufacturer(s) and/or processor(s) of 1,1,2-trichloroethane (CASRN 79-00-5) to develop and submit certain information for 1,1,2-trichloroethane, or otherwise respond to the U.S. Environmental Protection Agency (referred to herein as “the EPA” or “the Agency”). Failure to respond to this Order, or failure to otherwise comply with its requirements, is a violation of section 15 of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2614. Any person

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<sup>1</sup> To access the docket, go to <https://www.regulations.gov>.



who violates TSCA shall be liable to the United States for penalties in accordance with TSCA section 16, 15 U.S.C. § 2615.

This Order is **effective 5 calendar days after its date of signature by the EPA**. The timeframes and options for responding are described in **Unit IV** (Response Options). Please note that the email transmitting this Order to you will provide the calendar date for the response deadlines as defined in **Unit III** (Deadlines for Responding to this Order). A subsequent email will provide a company specific Order number for you to use in responses and communications about this Order.

This Order is organized as follows:

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## **I. PURPOSE AND AUTHORITY**

### **A. OVERVIEW**

This Order is being issued under the authority of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2601 et seq. TSCA section 4 authorizes the EPA to require the development of necessary information related to chemical substances and mixtures.

This Order requires the identified recipients to develop and submit new information on 1,1,2-trichloroethane (CASRN 79-00-5) that is necessary for the EPA to perform a risk evaluation under TSCA section 6(b).

Information on testing requirements is provided in **Appendix E**. The EPA encourages the formation of industry consortia to jointly conduct testing between the recipients of this Order. See **Unit VIII** for more information on this topic.

The Order provides four response options, listed below. More information on each of these options is provided in **Unit IV**. Timeframes for these options is provided in **Unit III**. Note that the deadline to identify as a manufacturer, processor, or both is 30 calendar days of the effective date of this Order. This step is necessary for purposes of this Order to ensure that your company can appropriately access the CDX application used for responding to section 4 orders.

**Option 1: Develop the Information**

Use this option to develop information in response to all of the requirements of this Order that apply to you, or use this option in conjunction with other response options identified in this section as appropriate.

Manufacturers who are required to test a chemical substance or mixture pursuant to a TSCA section 4 order are also required to pay a fee (see **Unit VII**).

**Option 2: Submit Existing Information**

Use this option to submit an existing study and/or other scientifically relevant information that you believe the EPA has not considered, along with supporting rationale that explains how the submittal(s) meets part or all of the information described as necessary in **Unit II**. If the Agency determines that the submitted information satisfies one or more data needs identified by this Order, the Agency will extinguish any associated test requirement(s).

**Option 3: Request an Exemption**

Use this option to request an exemption from a testing requirement of this Order. The EPA will grant an exemption if:

1. Information on the subject chemical or an equivalent chemical has been submitted in accordance with a rule, order, or consent agreement under TSCA section 4(a), or is being developed in accordance with such a rule, order (including this Order), or consent agreement; and
2. Submission of information by the exemption applicant would be duplicative of information which has been submitted or is being developed in accordance with such rule, order (including this Order), or consent agreement.

**Option 4: Claim that You Are Not Subject to this Order**

Use this option to claim that you are not subject to this Order. You may claim that you are not subject to this Order if all of the following are true:

1. You do not currently manufacture or process the chemical(s) identified by this Order;
2. You do not intend to manufacture or process the chemical(s) within the period of testing provided by this Order; and
3. You have not manufactured or processed the chemical(s) at any time during the five years preceding the date of this Order.

You must provide an explanation of the basis for your claim, along with appropriate supporting information to substantiate that claim.

## **B. TERMINOLOGY USED IN THIS ORDER**

The term “manufacture” means to import into the customs territory of the United States, to produce, or to manufacture. 15 U.S.C. § 2602(9). Import also includes importing the chemical as an impurity in an article.

The term “process” means the preparation of a chemical substance or mixture, after its manufacture, for distribution in commerce—(A) in the same form or physical state as, or in a different form or physical state from, that in which it was received by the person so preparing such substance or mixture, or (B) as part of an article containing the chemical substance or mixture. 15 U.S.C. § 2602(13).

The term “chemical” or “substance” means a chemical substance or mixture.

## **C. PERSONS SUBJECT TO THIS ORDER**

### **1. Persons Identified**

An order issued under section 4(a) of TSCA may require the development of information by any person who manufactures or processes, or intends to manufacture or process, a chemical substance or mixture subject to the order. The recipients of this Order are listed at the top of the Order.

For purposes of this Order, a recipient identified by this Order is subject to the Order if it has manufactured or processed the chemical at any time during the five years preceding the date of this Order. If a recipient identified by this Order has not manufactured or processed the chemical during the prior five years, the recipient is nevertheless subject to the Order if they intend to manufacture or process the chemical within the period of testing provided by this Order.

A person who contracts with a producing manufacturer to manufacture or produce a chemical substance is also a manufacturer if (1) the producing manufacturer manufactures or produces the substance exclusively for that person, and (2) that person specifies the identity of the substance and controls the total amount produced and the basic technology for the plant process.

A recipient who is an importer of record of a chemical substance identified by this Order is responsible for the testing requirements of this Order, even if the recipient does not store, handle, use, or otherwise directly deal with the chemical.

The means by which the EPA identified each recipient subject to this Order does not govern whether a recipient is subject to this Order. Ultimately, any recipient that meets the criteria discussed in this section is subject to this Order, regardless of the basis on which the Agency identified the recipient.

### **2. Corporate Structure of Recipients: Changes of Ownership**

The EPA has attempted to identify the highest-level U.S. corporate entity for purposes of issuing this Order. The highest-level U.S. corporate entity is ultimately responsible for satisfying the obligations of this Order, although the highest-level U.S. corporate entity may delegate its responsibilities under this Order to a U.S. subsidiary. Where the corporate entity named in this Order is not the highest-level U.S. corporate entity, the Agency nonetheless considers notification of the company named in this Order to

constitute notification of the highest-level U.S. corporate entity and holds the highest-level U.S. corporate entity ultimately responsible for satisfying the obligations of this Order.

Should you wish to modify the name of the recipient or identify another U.S. corporate entity in the corporate structure as the point of contact in place of the recipient named in this Order, you must submit a request to the EPA. Submit your request, justification for the change, and contact information for the representatives of the newly named entity to [TSCAtestorders@epa.gov](mailto:TSCAtestorders@epa.gov). A representative from the Agency will contact you and any other representatives regarding this request.

In the event of mergers, acquisitions, or other transactions that create a corporate successor in interest (subsequent to the manufacturing or processing that triggered the reporting obligation, and either before or after receipt of this Order), that successor in interest is responsible for satisfying the obligations of this Order. The successor in interest must notify the EPA of its identity within 14 days following the transaction.

#### **D. PREVIOUSLY ISSUED ORDERS**

The EPA previously issued a test order for 1,1,2-trichloroethane, effective January 19, 2021, to meet other data needs. See <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/tsca-section-4a2-test-order-112-trichloroethane><sup>2</sup>.

Since issuing that test order, the EPA's continuing review of the reasonably available information has identified additional information needed to inform the associated risk evaluation. Accordingly, the Agency is issuing this additional Order for 1,1,2-trichloroethane. See the Statement of Need for further details. This Order does not alter the requirements of any previous test orders.

## **II. STATEMENT OF NEED**

The basis for requiring the development of new information by this Order is described in this unit and in **Appendix E**. This statement of need, as required by TSCA section 4(a)(3), includes: (A) the need for the new information; (B) how information reasonably available to the Administrator was used to inform the decision to require the new information; (C) why issuance of this Order is warranted instead of promulgating a rule or entering into a consent agreement; and (D) (if applicable) the basis for the Agency's decision to require testing of vertebrate animals. **Appendix E** (Testing Requirements of This Order) indicates which tests apply specifically to manufacturers and/or processors subject to this Order.

#### **A. THE NEED FOR THE NEW INFORMATION**

This section and **Appendix E** explain what new information is being required in this Order and why such information is needed for the risk evaluation of 1,1,2-trichloroethane under TSCA section 6(b).

The EPA has identified the following information in this section as necessary to conduct a risk evaluation to determine whether 1,1,2-trichloroethane presents an unreasonable risk of injury to health or the environment, without consideration of costs or other nonrisk factors, including an unreasonable risk to a potentially exposed or susceptible subpopulation identified as relevant to the risk evaluation by the Administrator, under the conditions of use (COU).

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<sup>2</sup> <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/tsca-section-4a2-test-order-112-trichloroethane>

The next unit will outline how the EPA came to determine these new information needs. Note that additional details for these testing requirements are provided in **Unit V** and **Appendix E**.

### **1. Environmental Hazard**

Information on hazards to aquatic and terrestrial organisms is needed to conduct a risk evaluation. The relevant environmental hazard data needs that this Order seeks to address for 1,1,2-trichloroethane, as described below, are as follows:

- Earthworm Reproduction Test (*Eisenia fetida/Eisenia andrei*)
- Avian Reproduction Test

## **B. HOW INFORMATION REASONABLY AVAILABLE TO THE ADMINISTRATOR WAS USED TO INFORM THE DECISION TO REQUIRE NEW INFORMATION**

This section details the “Scoping and Conceptual Models” and “Systematic Review of Reasonably Available Existing Information” processes used by the EPA to identify, respectively, what information is reasonably available to integrate into the risk evaluation for the conditions of use of 1,1,2-trichloroethane and ascertain, via a “Discipline-Specific Approach for Identifying Data Needs” what needed information is not reasonably available in existing literature (i.e., what testing to require).

### **1. Scoping and Conceptual Models**

The *Final Scope of the Risk Evaluation for 1,1,2-Trichloroethane* ([https://www.epa.gov/sites/default/files/2020-09/documents/casrn\\_79-00-5\\_112-trichloroethane\\_finalscope.pdf](https://www.epa.gov/sites/default/files/2020-09/documents/casrn_79-00-5_112-trichloroethane_finalscope.pdf)<sup>3</sup>) (hereinafter “*Final Scope*”) includes the hazards, exposures, conditions of use, and the potentially exposed or susceptible subpopulations the EPA expects to consider in the TSCA section 6(b) risk evaluation for 1,1,2-trichloroethane. The Agency has used the scope document and the conceptual models therein for workers and occupational non-users (ONUs), consumers and bystanders, general population, and environmental releases as a starting point for identifying information needs under this Order. The conceptual models visually represent the human and environmental exposures (pathways and routes), receptors, and hazards associated with the conditions of use of 1,1,2-trichloroethane. For each exposure (pathway and route), receptor, and hazard that is visually represented, the EPA has identified the information needed to conduct a risk evaluation for this chemical.

In addition, since publication of the *Final Scope*, the EPA has reconsidered the policy decision to exclude from the scope of TSCA section 6(b) risk evaluations certain exposure pathways and risks falling under the jurisdiction of other EPA-administered statutes or regulatory programs. Based on that reconsideration, the Agency now also intends to consider in the TSCA section 6(b) risk evaluation for 1,1,2-trichloroethane all of the exposure pathways portrayed in Figure 2-15 (Conceptual Model for Environmental Releases and Wastes: Environmental and General Population Exposures and Hazards (Regulatory Overlay)) of the *Final Scope*, and has identified the information needed for that assessment.

### **2. Systematic Review of Reasonably Available Existing Information**

The systematic review process began with searching peer-reviewed literature databases (e.g., Agricola, PubMed, Science Direct, ECOTOX Knowledgebase) for studies using 1,1,2-trichloroethane, synonyms,

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<sup>3</sup> [https://www.epa.gov/sites/default/files/2020-09/documents/casrn\\_79-00-5\\_112-trichloroethane\\_finalscope.pdf](https://www.epa.gov/sites/default/files/2020-09/documents/casrn_79-00-5_112-trichloroethane_finalscope.pdf)

and trade names. The EPA also conducted a search of gray literature (e.g., technical reports, reference books, dissertations, and other information not found in standard, peer-reviewed literature databases), as well as review of public comments posted to the docket for this chemical substance during the prioritization process and following publication of the draft scope document, relevant data and information submitted to the Agency under TSCA sections 4, 5, 8(e), 8(d), and For Your Information (FYI) submissions. The collected compilation of information was then screened for relevance. This process applied title/abstract screening and/or full-text screening based on screening criteria developed *a priori* for environmental hazard and consumer exposure (Population, Exposure, Comparator and Outcomes (PECO)); physical and chemical properties (Pathways and Processes, Exposure, Setting or Scenario, and Outcomes (PESO)) or occupational exposure literature (Receptors, Exposure, Setting or Scenario, and Outcomes (RESO)).

### **3. Discipline-Specific Approach for Identifying Data Needs**

#### *a. Environmental Hazard*

The EPA defined the pathways and routes of exposure, receptors, and hazards for environmental releases and wastes that are expected to be evaluated in the *Final Scope* (Figure 2-15 pg. 44). As noted above, since publication of the *Final Scope*, the Agency has reconsidered the policy decision to exclude from the scope of TSCA section 6(b) risk evaluations certain exposure pathways and risks falling under the jurisdiction of other EPA-administered statutes or regulatory programs. The Agency intends to consider all aquatic and terrestrial exposure pathways in the TSCA section 6(b) risk evaluation for 1,1,2-trichloroethane, and has identified the information needed for that assessment.

As determined in the *Final Scope*, the manufacturing, processing, distribution, use and disposal of 1,1,2-trichloroethane can result in releases to the environment and exposure to aquatic and terrestrial organisms. The EPA expects to assess environmental hazards and risks to both aquatic and terrestrial plants, invertebrates, and vertebrates and therefore requires hazard data for each of these assessment endpoints. The Agency also expects to assess organisms for both aquatic and terrestrial hazard when those organisms transition between aquatic and terrestrial ecosystems depending on the life stage evaluated (e.g., midges inhabit sediment as larvae but mature into adults that inhabit terrestrial and aquatic ecosystems).

Identification of the reasonably available information for 1,1,2-trichloroethane included consideration of existing data for the parent chemical and analogous chemicals for aquatic and terrestrial exposure pathways. The EPA identified seven analogues to 1,1,2-trichloroethane using EPA's Analog Identification Methodology (AIM) software (see **Unit II.B, Environmental Hazard – Analogues Table**). The Agency identified existing measured environmental hazard data for aquatic and terrestrial species for 1,1,2-trichloroethane and the identified analogues from the EPA's ECOTOX Knowledgebase (ECOTOX) and information submitted under TSCA, (e.g., under Sections 4 and 8e), FIFRA, and the Endocrine Disruptor Screening Program (EDSP).

Pursuant to this Order, the EPA is requiring data be submitted to facilitate evaluation of risk to terrestrial organisms. An order requesting testing to fill the aquatic data gaps identified for 1,1,2-trichloroethane was issued previously (see **Unit XI, References**). As shown in the table below, terrestrial environmental hazard data were identified for 1,1,2-trichloroethane and two of the seven identified analogues. These data covered exposures of 1,1,2-trichloroethane to terrestrial vegetation, acute exposures to soil invertebrates, mammals, and birds, and chronic exposures to mammals. No toxicity data for chronic exposures to soil invertebrates or birds were identified.

**Table 1. Terrestrial Environmental Hazard – Analogues**

Chemical Name	CASRN	Environmental Hazard Data Availability for 1,1,2-Trichloroethane						Vegetation
		Acute Exposure			Chronic Exposure			
		Soil Invertebrate	Mammal	Bird	Soil Invertebrate	Mammal	Bird	
1,1,2-Trichloroethane	79-00-5	X	X	X	-	X	-	X
<b>Analogues for 1,1,2-Trichloroethane</b>								
1,1,1-Trichloroethane	791-55-6	X	X	X	-	-	-	X
Trichloroethane	25323-89-1	-	-	-	-	-	-	-
1,2,3-Trichloropropane	96-18-4	-	X	-	-	-	-	-
1,2,3,4-Tetrachlorobuta-1,3-Diene	1637-31-6	-	-	-	-	-	-	-
1,1,5,5-Tetrachloropentane	17655-64-0	-	-	-	-	-	-	-
1,1,2,3-Tetrachloropropane	18495-30-2	-	-	-	-	-	-	-
1,2,3,4-Tetrachlorobutane	3405-32-1	-	-	-	-	-	-	-

X signifies data were identified and “-” signifies a gap, where no data were identified

**C. WHY ISSUANCE OF THIS ORDER IS WARRANTED INSTEAD OF PROMULGATING A RULE OR ENTERING INTO A CONSENT AGREEMENT**

The EPA is using its order authority under TSCA section 4(a)(2) to inform the risk evaluation for 1,1,2-trichloroethane under TSCA section 6(b) in accordance with the requirements and timeframes for conducting the risk evaluation. Use of this TSCA section 4(a)(2) authority will allow the Agency to target known manufacturer and processor recipients to obtain the needed information more quickly than if the EPA were to issue a TSCA section 4 rulemaking or consent agreement.

**D. THE EPA DETERMINED THAT VERTEBRATE TESTING IS NEEDED IN THIS ORDER**

The EPA has determined that vertebrate testing is needed to assess the particular exposure pathways and receptors discussed in this Order. Reasonably available data, computational toxicology, or high-throughput screening methods and prediction models are not available and/or cannot be used to address the avian reproduction testing required by this Order (see below for details). The analysis for determining data needs described in **Unit II.B** included use of acceptable new approach methodologies (NAMs), specifically the EPA computational toxicology and informatics tools such as AIM, to identify analogues with existing information that could potentially fill data needs. A list of the testing on vertebrates required by this Order as well as further information on the EPA review process that led to the inclusion of such testing requirements can be found in **Unit II.B** and **Appendix E**, as well as below.

**1. Environmental Hazard: Avian Reproduction Test**

No avian toxicity data following chronic exposures were identified for 1,1,2-trichlorethane or identified analogues for any endpoints. No approved or readily available new approach methodologies (NAMS) were identified that could be used to inform the data gap for avian toxicity following chronic exposure. Without toxicity data, the EPA is unable to determine if chronic exposures to 1,1,2-trichlorethane pose a risk to terrestrial vertebrates. Office of Pesticide Programs recently released a guidance that describes instances where sub-acute dietary testing in birds may be waived (U.S. EPA, 2020). This waiver specifically outlines instances where the

animal testing burden can be reduced by requesting only acute testing oral testing in birds and waiving the traditional requirement for both acute oral testing and sub-acute dietary testing with avian species. As this Test Order does not request acute oral testing with birds nor sub-acute dietary testing with birds, this waiver request is not relevant. The Agency has worked to ensure that the animal testing burden under TSCA is reduced by utilizing all available ecotoxicity data and tailoring data needs to the specific properties of each chemical. The testing requirement is reinforced by avian toxicity data captured in the peer-reviewed literature undergoing systematic review, which qualitatively indicates exposure to 1,1,2-trichloroethane caused developmental toxicity to chick embryos (Elovaara, 1979). While the nature of this endpoint (egg injection) is not directly comparable to other chemical toxicities following dietary exposure, the evidence of teratogenicity in chick embryos indicates that additional data are needed to understand the potential effect following chronic dietary exposure. Monitoring data from USGS’s National Water Quality Monitoring Council has also identified 1,1,2-trichloroethane in media to which terrestrial vertebrates could be exposed, including ground water, sediment, soil, surface water and biota (USGS, 1991).

### III. DEADLINES FOR RESPONDING TO THIS ORDER

This section describes the deadlines for this Order and possible modifications to such deadlines.

#### A. DEADLINES FOR RESPONSES TO THIS ORDER

The table below provides the deadlines for this Order. Deadlines that fall on a weekend or holiday will remain and will not be extended to the next weekday. Descriptions of these response options and the required process associated with each option is provided in **Unit IV**.

**Table 2. Deadlines for Responses, Study Plans, and Test Reports**

Order Requirement	Recipient’s Deadline (Days after the effective date of the Order)	EPA Response Deadline*
• Identify as a Manufacturer, Processor or Both	30	n/a
• Submit Request to Modify Corporate Identity Identified	30	n/a
• Choose to Submit Existing Data (Option 2)	30	45
• Claim that You Are Not Subject to this Order (Option 4)	45	60
• Choose to Develop the Information - On Own or as Part of a Consortium (Option 1)	65	n/a
• Request an Exemption (Option 3)	65	80
• Submit Draft Study Plan	80	95
• Submit Final Study Plan	110	125
• Submit Final Test Report	Deadline varies per Test Requirement (See <b>Unit V</b> and <b>Appendix E</b> )	

\*See **Unit III.B** for potential automatic extensions associated with the EPA responses. Deadlines for submitting final test reports for each required test are provided in **Appendix E**.

#### B. AUTOMATIC EXTENSIONS TO DEADLINES

The EPA will automatically extend deadlines should the Agency fail to meet any EPA response deadline set forth in **Unit III.A**. Specifically, deadlines will be automatically extended should the



Agency fail to respond within 15 calendar days of the deadline for a response option if the response was submitted in the CDX application prior to the deadline provided. For each day exceeding the 15-day period following the associated deadline, the EPA will extend subsequent deadlines by one day.

Should a recipient amend their response, at any time, the EPA will not extend any associated or subsequent deadlines. Therefore, the Agency recommends that recipients submit their amendments or extension requests as early as practicable to ensure adequate time to perform any required testing given that the Agency will not automatically extend deadlines for any such amendments to responses.

**The EPA will not automatically extend a deadline for a response should the recipient submit its response after the deadline for the given response option.** Additionally, the EPA will not automatically extend a deadline for a response should the Agency respond within 15 days of the deadline for a given response option that was submitted on or before the deadline for that response option.

Other than potential automatic extensions to deadlines described here, **Unit III.C** provides the process for requesting an extension to a deadline.

### **C. REQUESTING AN EXTENSION TO A DEADLINE FOR RESPONDING TO THIS ORDER**

If you believe you cannot submit the required identification as a manufacturer, processor, or both; Order response; draft study plan; final study plan; or final test report to the EPA by the deadline(s) specified in this Order and intend to seek additional time to meet the requirement(s), you must submit a request to the Agency through the EPA's CDX portal as soon as you know you may need an extension. Your request must include: (1) a detailed description of the expected difficulty, including technical and laboratory difficulties, and (2) a proposed schedule including alternative dates for meeting such requirement(s) on a step-by-step basis.

The EPA will grant or deny deadline extension requests at its discretion.

## **IV. RESPONDING TO THIS ORDER**

You are required to respond to this Order even if you believe your company is not subject to this Order. Failure to provide a response is a violation of section 15 of TSCA.

### **A. IDENTIFY AS A MANUFACTURER, PROCESSOR, OR BOTH**

Within 30 calendar days of the effective date of this Order, you, as a recipient of this Order, are required to respond to this Order through the EPA's Central Data Exchange (CDX) portal, informing the Agency whether you will be responding to this Order as manufacturer or processor (if you manufacture and process the chemical, select manufacturer). To provide your preliminary response to this Order, you will receive an e-mail from the EPA within five days of the Order being signed (i.e., by the effective date of the Order) that provides a CDX Order number for purposes of complying with this Order.

You may claim that you are not subject to this Order if you (1) do not currently manufacture or process the chemical(s) identified by this Order; (2) do not intend to manufacture or process the chemical(s) within the period of testing provided by this Order (see **Unit V**); and (3) have not manufactured or processed the chemical(s) at any time during the five years preceding the effective date of this Order. See **Unit VI.B.4** for more information on how to claim that you are not subject to this Order.

## **B. FOUR RESPONSE OPTIONS**

A recipient has four available options for purposes of responding to this Order. See **Unit III** to review the deadlines for this Order.

### **Option 1: Develop the Information**

If you choose to develop information in response to this Order, you must select this option in the CDX portal form.

For details on the steps of this response option, see **Unit VI**.

For more information on this Order's required tests, required protocols/methodologies, and deadlines for submission of test reports see **Unit V** and **Appendix E**.

### **Option 2: Submit Existing Information**

If you choose to respond to this Order by submitting an existing study and/or other scientifically relevant information that you believe the EPA has not considered, your response in the EPA's CDX portal must be submitted to the EPA 30 days after the effective date of the Order and include the study(ies) and/or other scientifically relevant information, along with supporting rationale that explains how the study and/or other scientifically relevant information meets part or all of the information or obviates the need for the information described as necessary in **Unit II**.

The EPA's determination regarding whether the study and/or other relevant information satisfies part or all of the information or obviates the need for the information described as necessary in **Unit II** will be based on the weight of the scientific evidence from all relevant information reasonably available to the Agency. The Agency will notify you of its determination through CDX. If the Agency determines that the study and/or other scientifically relevant information satisfies the need in lieu of the testing required in this Order and/or the original testing requirement is no longer needed, the EPA will extinguish those testing obligations from this Order that are no longer necessary, with respect to the appropriate recipients of this Order. If the study was your only testing obligation under the Order, all your obligations under this Order will be extinguished upon notification by the Agency.

If the EPA determines that the study and/or other scientifically relevant information does not satisfy that need, you must modify your response in the EPA's CDX portal to choose one of the other response options in **Unit IV** within 10 calendar days of being notified by the Agency.

Note that the submission of existing information will not extend the deadline for the draft study plan submission for that testing requirement unless the existing information is submitted within 30 days of the effective date of the Order and the EPA does not respond within 45 days of the effective date of the Order. Thus, failure to submit existing information prior to the 30-day deadline will result in a need to submit a draft study plan by the 80-day deadline. See **Unit III.B** for information on the potential automatic extension of deadlines.

### **Option 3: Request an Exemption**

Any person required by this Order to conduct tests and submit information on a chemical may apply for an exemption from such requirement (TSCA section 4(c)(1)).

The EPA will grant a request for exemption from the requirement to conduct tests and submit information on a chemical substance if:

1. Information on the subject chemical or an equivalent chemical has been submitted in accordance with a rule, order, or consent agreement under TSCA section 4(a), or is being developed in accordance with such a rule, order (including this Order), or consent agreement, and
2. Submission of information by the exemption applicant would be duplicative of information which has been submitted or is being developed in accordance with such rule, order (including this Order), or consent agreement.

An exemption request must be submitted through the CDX portal and contain the following:

1. This Order number, the chemical identity, and the CAS Registry No. of the test substance subject to this Order on which the application is based.
2. The specific testing requirement(s) from which an exemption is sought.
3. The basis for the exemption request when another company(ies) has/have submitted the information or is/are developing information for the subject chemical or an equivalent chemical pursuant to a TSCA section 4(a) rule, order, or consent agreement. Your request must identify the company(ies) that submitted or is/are developing the information.
4. The chemical identity of the equivalent chemical (the test substance in the information submitted or being developed) on which the application is based.
5. The equivalence data (“chemical data or biological test data intended to show that two substances or mixtures are equivalent” (see **Appendix A**)), if data on an equivalent chemical is being submitted.
6. The name, mailing address, telephone number, and e-mail address of applicant.
7. The name, mailing address, telephone number, and e-mail address of appropriate individual to contact for further information.
8. A Statement of Financial Responsibility: The following sworn statement (i.e., signed and notarized) must accompany each request for an exemption:

“I understand that if this application is granted, I must pay fair and equitable reimbursement to the person or persons who incurred or shared in the costs of complying with the requirement to submit information and upon whose information the granting of my application was based.”

The EPA’s grant of an exemption is conditional upon the completion of the required tests according to the specifications of this Order (or other applicable rule, order, or consent agreement), including any modifications approved by the Agency. If the EPA subsequently determines that equivalent data has not been submitted in accordance with the applicable rule, order, or consent agreement, the Agency will provide notice through CDX of its preliminary decision to terminate the exemption. Within 30 days after receipt of such notice, the exemption holder may submit information in the CDX portal either to rebut the EPA’s preliminary decision to terminate the exemption or notify the Agency of its intent to develop

the required information pursuant to the specifications established in this Order and any modifications approved by the EPA. If the exemption holder submits information to rebut the EPA's preliminary decision to terminate the exemption, then the Agency will provide the exemption holder an opportunity to request a hearing prior to issuing a final decision to terminate the exemption. Following the receipt of information to rebut the EPA's preliminary decision and any subsequent hearing, the Agency will render a final decision on whether to terminate the exemption, taking into account information submitted to rebut the EPA's preliminary decision and information presented at any hearing, as applicable.

If you receive the EPA's preliminary decision to terminate the exemption and do not submit information to rebut that preliminary decision or request a hearing, or if you receive the Agency's final decision to terminate the exemption following the submission of information to rebut that preliminary decision or a hearing, you must resubmit a response in accordance with one of the options described in **Unit IV.B** of this Order within 30 calendar days of receipt of the EPA's decision to terminate the exemption, including as applicable the information required under **Unit V** of this Order. Failure to timely resubmit the response will constitute a violation of this Order and of TSCA section 15(1). Should the Agency terminate the exemption, a draft study plan will be due 30 days from the termination, with the final study plan being due 60 days from the termination.

If the EPA extinguishes a testing obligation pursuant to **Unit IV.B.2** of this Order, the corresponding exemption will be extinguished, as the exemption will no longer be necessary. In such a situation, companies who requested an exemption from that specific testing obligation are not required to reimburse the company that submitted existing data.

As explained in **Appendix B** on Cost Sharing, persons who receive exemptions from testing have an obligation to reimburse the person(s) who perform the required testing and submit the required information for a portion of the costs incurred in complying with the requirement to submit such information, and any other person required to contribute to a portion of such costs. Normally, this is worked out by the parties involved, without the involvement of the EPA. However, if agreement cannot be reached on the amount or method of reimbursement, and the company who is entitled to reimbursement requests in accordance with the procedures in **Appendix B** that the Agency order reimbursement, the Administrator shall order the person granted the exemption to provide fair and equitable reimbursement. See TSCA section 4(c).

#### **Option 4: Claim that You Are Not Subject to this Order**

You may claim that you are not subject to this Order if you do not manufacture or process the chemical(s) identified by this Order; do not intend to manufacture or process the chemical(s) within the period of testing provided by this Order (see **Unit V**); and have not manufactured or processed the chemical(s) at any time during the five years preceding the effective date of this Order.

An explanation of the basis for your claim, along with appropriate supporting information to substantiate that claim, must accompany your response in the CDX portal so that the EPA can evaluate the claim.

Note that if your company ceased manufacturing (including import) or processing of the chemical substance(s) subject to this Order more than five years prior to the effective date of this Order, you can claim that you are not subject to this Order.

In the instance that you claim you are Not Subject to this Order, your claim must include (1) a statement explaining why your company is not subject to this Order, such as no longer importing, manufacturing

or processing the subject chemical substance (intentionally or unintentionally) within the five years prior to the effective date of this Order, and not intending to manufacture (including import) or process the chemical within the period of testing provided by this Order (see **Unit V**), and (2) the certifying statement “I certify that the statements made in this letter are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine, imprisonment or both under applicable law.”

If based on the evidence you provide and other evidence available to the EPA, the Agency deems your claim to be inadequately substantiated, the EPA will deny your claim, and the original requirements and deadlines in this Order will remain. If your claim is approved, the Agency will notify you that you are not subject to this Order through CDX correspondence. The EPA expects to provide such notification within 45 days of the effective date of this Order.

To select this option, you must do so within 45 days of the effective date of this Order.

## V. OVERVIEW OF TESTING REQUIRED BY THIS ORDER

This unit applies to Option 1: Develop the Information and Option 2: Submit Existing Information (**Units IV.B.1 and IV.B.2**).

Where the required protocol is an EPA guideline, the guideline is available on the EPA website at <http://www.epa.gov/test-guidelines-pesticides-and-toxic-substances><sup>4</sup> and from the National Technical Information Service (NTIS), Attn: Order Desk, 5285 Port Royal Road, Springfield, VA 22161 (tel: 703-605-6000). This EPA website also provides information on OECD guidelines, which are also available via OECD’s website at <https://www.oecd.org/chemicalsafety/testing><sup>5</sup>. **Appendix E** provides additional sources for guidelines associated with specific testing.

The EPA reserves the right to revise this Order to extinguish specific testing obligations where existing information subsequently comes to the Agency’s attention that in the EPA’s scientific judgment obviates the need for specific test data required under this Order. Specific information for ordered test(s) are provided in **Appendix E**.

See **Appendix E** for details on the required test protocols.

**Table 3. Entities Responsible and Deadlines for Required Testing Protocol(s)/Methodology(ies)**  
Deadlines that fall on a weekend or holiday will remain and will not be extended to the next weekday.

Test Names	Protocols Methodologies	Entities Responsible for Testing	Deadlines to Submit Final Reports to EPA
<b>Environmental Hazard</b>			
Earthworm Reproduction Test ( <i>Eisenia fetida/Eisenia andrei</i> )	OECD 222 (2016)	Manufacturers	215 days after effective date of the Order
Avian Reproduction Test	OCSPP 850.2300	Manufacturers	295 days after effective date of the Order

<sup>4</sup> <http://www.epa.gov/test-guidelines-pesticides-and-toxic-substances>

<sup>5</sup> <https://www.oecd.org/chemicalsafety/testing>

## **VI. REQUIREMENTS OF RESPONSE OPTION 1: DEVELOP THE INFORMATION REQUIRED BY THIS ORDER**

### **A. OVERVIEW**

The draft study plan is due to the EPA **80 days** after the effective date of this Order. The EPA will then review the draft study plan and provide input to ensure adequacy of the final study plan. For the final study plans and the final test reports, see the Deadlines for Responses, Study Plans, and Test Reports table in **Unit III.A**.

All testing described in **Unit V** must be conducted in accordance with the Good Laboratory Practice (GLP) standards in 40 CFR part 792, as specified in the CFR on the Effective Date of this Order. You must provide a statement of compliance with these GLP standards when submitting information to the EPA pursuant to this Order.

Deviations from the test guideline or specific GLP standards are allowed provided justifications for such deviations are approved by the EPA. A justification is required for each deviation. Justifications should demonstrate that, despite the deviation from the given test guideline or GLP standard, that data integrity, control of bias, and study quality will be maintained with similar effectiveness. Any requested deviations and corresponding justifications must be included in the draft study plan for the Agency's consideration and, if approved, described in the test report.

Once the EPA has completed its review of the submitted test reports and accepts the information as fully complying with your testing obligations under this Order, the Agency will notify you.

### **B. DRAFT STUDY PLAN REQUIREMENTS**

#### **1. Study Plan Requirements for All Categories of Tests**

If you choose to develop the required information to comply with this Order, you must obtain and review the required protocols/methodologies. **Unit V** and **Appendix E** provide the protocols/methodologies that must be followed to perform each required test.

If questions and/or issues arise during Study Plan development, the EPA encourages questions/comments be submitted along with the Study Plan submission in accordance with the draft study plan deadline. If the Agency's review of the draft study plan that includes the questions/comments is delayed, the procedure outlined in **Unit III.B** will be followed for automatic extensions of the study plan.

In addition to requirements provided in **Appendix E** for a given test required by this Order, the Study Plans must contain the following information:

1. This Order number, excluding the unique 6-digit company number using X's in place of the unique company number so as to protect each company's private access to the reporting module via Central Data Exchange (CDX). For example, if your Order number is TO-2020-0000-438435-00-0 then provide this number in the Study Plan: TO-2020-0000-XXXXXX-00-0.
2. Name of test to be covered by the test protocol/methodology.

3. The name/number of the protocol/methodology identified in this Order which you intend to follow, a copy of the identified protocol/methodology with your proposed modifications, or a copy of the alternate protocol/methodology you propose to use. Justification(s) must be provided for any deviation from the protocol/methodology provided in this Order.
4. The identity of and supporting data on the chemical substance to be tested including physical constants, spectral and chromatographic data, chemical analysis, and stability under test and storage, and test conditions required by the protocol. A Certificate of Analysis of the test substance must be provided.
5. The sampling and analytical method that will be used.
6. A description of the preparation and processing of samples that will be done before sampling and during sampling, including equilibration, weighing, calibration, test conditions (temperature, humidity), number and type of samples, and identification of equipment and accessories used (make, model, size/capacity, and operating conditions), including the specific sampling media and sampling instruments that will be used.
7. A description of all quality assurance and quality control protocols used.
8. The name(s) and address(es) of the company(ies) sponsoring the test and whether they comprise a testing consortium.
9. The name(s), mailing address(es), phone number(s), and e-mail address(es) of the appropriate individual(s) for the EPA to contact concerning the planned test.
10. The name of the testing facility and the names, mailing addresses, telephone numbers, and email addresses of the testing facility's administrative officials, study director/project managers and quality control officer responsible for ensuring the testing protocol follows appropriate quality assurance and quality control procedures.

## **2. Modifying a Required Protocol/Methodology in a Draft Study Plan**

The draft study plan must include the required protocols/methodologies outlined in **Unit VI.A.1** and **Appendix E**. If you believe modifications of these required protocols/methodologies are necessary, you should propose the modification in the draft study plan and submit to the EPA with request for the Agency to consider the modifications. Any consultation regarding modifications to the required protocols/methodologies will not extend the deadline for submission of the draft study plan.

Any submitted requests for modifications of the required protocols/methodologies must include a detailed description of the proposed modification as well as a detailed description of the justification and reasoning for such modifications. Requests for modifications of protocol/methodology or the use of an alternate protocol/methodology must discuss why such changes are appropriate and whether they could alter the validity of the study. The rationales do not have to be listed in a separate document in the study plan if they are included and clearly identified in the relevant section of the study plan describing the protocols/methodologies.

If the EPA has concerns about the requested protocol/methodology or your requested modifications of the required protocol/methodology, the Agency will inform you of concerns that must be addressed before the EPA will approve your study plan. The Agency has 15 days from the deadline for the study

plan to respond. For each day following this period that the EPA does not respond, the Agency will extend the deadline for the final study plan by one day (see **Unit III**).

### **3. EPA Review of Study Plans and Final Test Report**

The EPA will not conduct a substantive review of any draft study plan that does not meet the requirements as provided in **Unit IV.B.1** and **Appendix E**. Such a submission does not constitute meeting the deadline for the draft study plan submission. **Unit III** provides information on deadlines and the EPA response timelines.

Failure to submit a draft study plan, final study plan, and final test report which do not fully comply with the terms of this Order and by the deadlines provided in **Unit III** may result in a violation of TSCA section 15.

#### *a. Study Plans*

Following review of a draft study plan submission, the EPA will indicate what modifications, if any, are required and must be incorporated into the final study plan. Accompanying a proposed final study plan submission, the submitter must provide a clean and red-lined version. The red-lined version will indicate the changes incorporated into the final study plan as compared with the draft study plan submission.

If the EPA requires modifications to a submitted draft study plan, the Agency may elect to provide a line-by-line list of comments that must be addressed and corrected before a final study plan will be approved. If the submitter receives a line-by-line list of comments, the submitter must address each individual comment and include this in their response to the Agency along with the proposed final study plan.

Prior to initiating any test, the Company/Consortium must first address the EPA's input on the study plan and receive the Agency's acceptance of the final study plan.

The EPA's acceptance of a final study plan does not constitute pre-acceptance of any future test results. If testing conducted according to a requested protocol/methodology or requested modifications of the required protocol/methodology is initiated prior to EPA approval, that testing will not satisfy the requirements of the Company under this Order.

If, after the final study plan has been approved or after testing is underway, you wish to make a modification to an identified protocol/methodology or use a different protocol/methodology, you must submit a request to the EPA to make these changes in your study and you must still meet the deadlines set out in **Unit V** and **Appendix E** for the relevant test or request an extension (see also **Unit III.C**), if needed.

Note that submitting questions to the EPA regarding study plan requirements will not extend the deadline for a study plan submission.

#### *b. Final Test Reports*

Once the EPA has completed its initial review and accepted data for all test reports subject to this Order for a given testing requirement, the Agency will notify the designated contact for the company or consortium subject to this Order that this testing requirement has been satisfied, which in turn will close out the testing requirement of this Order for the companies and participants in any consortium subject to



this Order. Failure to file a final test report meeting all the requirements in this Order by the deadline in **Unit III** is a violation of TSCA. Your final test report must be submitted along with the data in the associated Organisation for Economic Co-operation and Development (OECD) harmonized template format, if available. OECD harmonized templates can be located at <https://www.oecd.org/ehs/templates/harmonised-templates.htm><sup>6</sup>:

Earthworm Reproduction Test (*Eisenia fetida/Eisenia andrei*), OECD 222 (2016)

- Harmonized Template Identifier: 50-1

Avian Reproduction Test (OCSPP 850.2300)

- Harmonized Template Identifier: 53

## VII. FEES FOR SUBMITTING INFORMATION

Per 40 CFR § 700.45, and taking into account the inflation adjustment that went into effect on January 1, 2022, the Test Order fee is \$11,650 to be split evenly among the manufacturers who are required to test a chemical substance or mixture subject to the Test Order (accounting for small business considerations). Processors are not subject to this fee, nor are manufacturers who submit existing information or receive an exemption in compliance with this Order.

Small businesses may be subject to no more than 20% of the amount of the applicable fee. A company may qualify for a “small business concern” discount if their total number of employees is at or below the maximum allowed in the final rule for that company's North American Industry Classification System (NAICS) code (see 40 CFR 700.43). In order for an entity to qualify as a “small business concern,” its number of employees shall not exceed the size standard for the applicable industry. When calculating the number of employees, the company must include the employees of all parent and subsidiary companies within the corporate chain. Please note that small business fees are only applicable to qualifying small businesses who are either not associated with a consortium or associated with an all-small business consortium. See this webpage for more information: <https://www.epa.gov/tsca-fees/tsca-fees-and-small-businesses><sup>7</sup>.

A company can identify itself as a small business when responding to this Order via the CDX application. The “small business concern” discount will be included in the determination of company-specific invoices for the distribution of the \$11,650 fee across all manufacturers conducting testing for the given Test Order. Where a consortium is responsible for the fee for its members for purposes of this Order, and at least one of the members is not a small business, the EPA does not apply a “small business concern” discount to the portion of the \$11,650 distributed to the consortium.

Fees for Test Orders under TSCA section 4 will be invoiced electronically by the EPA. Invoice notices will be populated into the specific user's “Copy of Record” screen in CDX and will contain a button that will initiate the payment process. When an invoice is generated, notification e-mails will be sent to the user's CDX inbox and the e-mail address associated with the relevant CDX account. Payment information will be collected in CDX and then submitted to Pay.gov for processing.

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<sup>6</sup> <https://www.oecd.org/ehs/templates/harmonised-templates.htm>

<sup>7</sup> <https://www.epa.gov/tsca-fees/tsca-fees-and-small-businesses>

Note that there are many fees associated with TSCA-related activities. See this webpage for more information: <https://www.epa.gov/tsca-fees/tsca-fees-table><sup>8</sup>. The TSCA section 4 Test Order fee is separate from these fees. A company's inclusion in or exclusion from other TSCA fees is unrelated to that company's status with regards to TSCA section 4 Test Order fees.

Pursuant to 40 CFR § 700.45, the applicable fee shall be paid in full no later than 120 days after the effective date of the Order. Should the EPA invoice the fee more than 90 days after the effective date of the Order, payment will be due within 30 days of such invoicing.

## **VIII. INSTRUCTIONS IF YOU CHOOSE TO PARTICIPATE IN A CONSORTIUM**

If you choose to form or join a consortium to share in the cost of developing the required information, you (as well as the other Order recipients who are participants in the consortium) must, individually in the CDX portal, state your intention to participate in a testing consortium for each specific chemical and specific test. Consortium participants must individually respond in the CDX portal with their intent to participate before designated leads are able to add them to the consortium.

In addition, the designated lead for the consortium must submit a consortium response to the EPA in the CDX portal. The response must confirm the formation of the consortium, identify its member companies, and list the testing obligations that the consortium plans to fulfill on behalf of each company by indicating each specific test. The response must also include contact information for the designated lead of the consortium, who must be domiciled in the United States. The designated lead for the consortium must submit the response and required information on behalf of the consortium and its member companies by the deadlines listed in **Unit III.A**. Submissions made on behalf of the consortium must be in accordance with instructions in **Appendix C**. Note that a consortium lead need not be a recipient of an Order; other entities (such as trade organizations) may act as a lead and submit the information required under this Order. After the results of the last required test of this Order are submitted and the EPA accepts the information as complying with this Order, or the Agency accepts existing information submitted by the Consortium, the EPA will provide notification of compliance with this Order to this Order's recipients and the designated lead of the consortium.

Even if you agree to jointly submit the information as part of a consortium, each Order Recipient is still required to comply with this Order (with the study plan and results being submitted by the consortium) and is individually liable in the event of any failure to comply with this Order. If the consortium fails to submit the information or meet any of the requirements of this Order on your behalf, you will be in violation of this Order unless you submit the required information or meet the requirement individually.

The Agency has provided a list of the manufacturers and processors that have received this Order at the top of this Order in the Summary Information section. This list of manufacturers and processors can be used to help Order Recipients form a consortium to jointly develop information, consolidate testing and share the cost of testing. Information on cost sharing is provided in **Appendix B**.

## **IX. CONFIDENTIALITY**

Under TSCA section 14(b)(2), health and safety studies submitted under TSCA and data reported to or otherwise obtained by the Administrator from health and safety studies are not protected from disclosure if the studies and data concern a chemical that is offered for commercial distribution, or for which

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<sup>8</sup> <https://www.epa.gov/tsca-fees/tsca-fees-table>

testing is required under TSCA section 4 or notification is required under TSCA section 5. However, TSCA section 14(b)(2) does not apply to information that discloses processes used in the manufacturing or processing of a chemical substance or mixture or, in the case of a mixture, the portion of the mixture comprised of the chemical subject to this Order. Therefore, some or all of the information in the studies required to be submitted under this Order might not be eligible for TSCA confidential business information (CBI) protections.

Information submitted under TSCA that you wish to have the EPA protect as CBI must be clearly identified as such when submitted. For sections of the report that are claimed as CBI, the report must be accompanied by a sanitized version of the report only removing the specific information claimed as CBI. A sanitized test report that redacts all or most of the study may be rejected by the Agency as not satisfying the requirements of this Order.

When claiming information as CBI, you must certify to the following:

“I hereby certify to the best of my knowledge and belief that all information entered on this form is complete and accurate.

I further certify that, pursuant to 15 U.S.C. § 2613(c), for all claims for confidentiality made with this submission, all information submitted to substantiate such claims is true and correct, and that it is true and correct that

- (i) My company has taken reasonable measures to protect the confidentiality of the information;
- (ii) I have determined that the information is not required to be disclosed or otherwise made available to the public under any other Federal law;
- (iii) I have a reasonable basis to conclude that disclosure of the information is likely to cause substantial harm to the competitive position of my company; and
- (iv) I have a reasonable basis to believe that the information is not readily discoverable through reverse engineering.

Any knowing and willful misrepresentation is subject to criminal penalty pursuant to 18 U.S.C. § 1001.”

In addition, information claimed as CBI must be substantiated upon submission, with the exception of information described in TSCA section 14(c)(2). Guidance for substantiating CBI claims may be found at <https://www.epa.gov/tsca-cbi/what-include-cbi-substantiations>.

Failure to follow the statutory requirements for asserting and substantiating a CBI claim may result in the information being made available to the public without further notice to the submitter.

When a claim of CBI under TSCA section 14 is approved by the EPA, the Administrator will generally protect that information from disclosure for 10 years (unless the protection from disclosure is withdrawn by the person that asserted the claim), whereupon the claim must be reasserted and re-substantiated if the submitter wishes to maintain the CBI claim. In certain cases, the Agency may review claims prior to the expiration of the 10-year period.

Under circumstances stated in TSCA section 14(d), the EPA may disclose information claimed as CBI to other persons including, for example, Federal and State authorities, health and environmental professionals, poison control centers, and emergency responders.

## X. CONSEQUENCES OF FAILURE TO COMPLY WITH THIS ORDER

Failure to comply with any of the requirements in this Order is a violation of TSCA section 15 and could subject you to civil and/or criminal penalties under TSCA section 16, 15 U.S.C. § 2615 as modified by the Federal Civil Penalties Inflation Adjustment Act. Each day that failure to meet the requirements continues constitutes a separate violation.

## XI. REFERENCES

The following is a listing of the documents that are generally applicable to this Order. **Appendix E** provides references specific to certain testing requirements in this Order. Please note that references, guidance, and information from additional sources could be considered, with EPA approval, during the development of study plans.

The docket includes these documents and other information considered by the EPA, including documents that are referenced within the documents that are included in the docket, even if the referenced document is not physically located in the docket. For assistance in locating these other documents, please consult the technical person listed under **FOR FURTHER INFORMATION CONTACT**.

### General References for this Test Order

1. U.S. EPA (2021). 1,1,2-Trichloroethane Test Order [EPA-HQ-OPPT-2018-0421]. Washington DC: U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention (OCSPP).  
<https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/tsca-section-4a2-test-order-112-trichloroethane><sup>9</sup>
2. U.S. EPA (2020a). Final Scope of the Risk Evaluation for 1,1,2-Trichloroethane [EPA-740-R-20-003]. Washington DC: U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention (OCSPP).  
[https://www.epa.gov/sites/default/files/2020-09/documents/casrn\\_79-00-5\\_112-trichloroethane\\_finalscope.pdf](https://www.epa.gov/sites/default/files/2020-09/documents/casrn_79-00-5_112-trichloroethane_finalscope.pdf)<sup>10</sup>
3. U.S. EPA (2020b). Use Report for 1,1,2-Trichloroethane (CASRN 79-00-5) [EPA-HQ-OPPT-2018-042]. Washington DC: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics (OPPT).  
<https://www.regulations.gov/document/EPA-HQ-OPPT-2018-0421-0018><sup>11</sup>

### Earthworm Reproduction (*Eisenia fetida*/*Eisenia andrei*) Test References

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<sup>9</sup> <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/tsca-section-4a2-test-order-112-trichloroethane>

<sup>10</sup> [https://www.epa.gov/sites/default/files/2020-09/documents/casrn\\_79-00-5\\_112-trichloroethane\\_finalscope.pdf](https://www.epa.gov/sites/default/files/2020-09/documents/casrn_79-00-5_112-trichloroethane_finalscope.pdf)

<sup>11</sup> <https://www.regulations.gov/document/EPA-HQ-OPPT-2018-0421-0018>

4. OECD. (2016). Test No. 222: Earthworm Reproduction Test (*Eisenia fetida/Eisenia andrei*). Paris, France: OECD Guidelines for the Testing of Chemicals, Section 2, OECD Publishing. <https://doi.org/10.1787/9789264264496-en><sup>12</sup>

#### Avian Reproduction Test References

5. Elovaara, E., Hemminki, K., Vainio, H. (1979). Effects of Methylene Chloride, Trichloroethane, Trichloroethylene, Tetrachloroethylene and Toluene on the Development of Chick Embryos. Toxicology, Volume 12, Issue 2, Pages 111-119, ISSN 0300-483X. [https://doi.org/10.1016/0300-483X\(79\)90037-4](https://doi.org/10.1016/0300-483X(79)90037-4)<sup>13</sup>

6. U.S. EPA (2012). OCSPP 850.2300: Avian Reproduction Test [EPA 712C-023]. Washington DC: U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention (OCSPP). <https://www.regulations.gov/document/EPA-HQ-OPPT-2009-0154-0012><sup>14</sup>

7. U.S. EPA (2020). Final Guidance for Waiving Sub-Acute Avian Dietary Tests for Pesticide Registration and Supporting Retrospective Analysis. Washington DC: U.S. Environmental Protection Agency, Office of Pesticide Programs (OPP). <https://www.epa.gov/sites/default/files/2020-02/documents/final-waiver-guidance-avian-sub-acute-dietary.pdf><sup>15</sup>

8. U.S. Geological Survey (USGS). (1991). USGS Monitoring Data: National Water Quality Monitoring Council [Database] – Air, Groundwater, Sediment, Soil, Surface Water, Tissue. <http://www.waterqualitydata.us/portal/><sup>16</sup>

## **XII. PAPERWORK REDUCTION ACT NOTICE**

This collection of information is approved by the Office of Management and Budget (OMB) under the Paperwork Reduction Act, 44 U.S.C. § 3501 et seq. (OMB Control No. 2070-0033). Responses to this collection of information are mandatory under the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2601 et seq. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to be 137 hours for the average response on a per-chemical basis. Under the PRA, burden is defined at 5 CFR 1320.3(b). Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

## **XIII. FOR FURTHER INFORMATION CONTACT**

For technical information contact: [TSCATestOrders@epa.gov](mailto:TSCATestOrders@epa.gov).

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<sup>12</sup> <https://doi.org/10.1787/9789264264496-en>

<sup>13</sup> [https://doi.org/10.1016/0300-483X\(79\)90037-4](https://doi.org/10.1016/0300-483X(79)90037-4)

<sup>14</sup> <https://www.regulations.gov/document/EPA-HQ-OPPT-2009-0154-0012>

<sup>15</sup> <https://www.epa.gov/sites/default/files/2020-02/documents/final-waiver-guidance-avian-sub-acute-dietary.pdf>

<sup>16</sup> <http://www.waterqualitydata.us/portal/>

*For general information contact:* The TSCA-Hotline, ABVI-Goodwill, 422 South Clinton Ave., Rochester, NY 14620; telephone number: (202) 554-1404; email address: [TSCA-Hotline@epa.gov](mailto:TSCA-Hotline@epa.gov).

#### **XIV. SIGNATURE**

Under the authority in TSCA section 4(a)(2), the United States Environmental Protection Agency hereby issues this Order to take effect on the date of my signature.

**MICHAL  
FREEDHOFF** Digitally signed by  
MICHAL FREEDHOFF  
Date: 2022.03.24  
06:46:32 -04'00'

**Michal Freedhoff,**

*Assistant Administrator, Office of Chemical Safety and Pollution Prevention.*

Enclosures

## APPENDIX A - EQUIVALENCE DATA

For purposes of this Order, “equivalence data” means “chemical data or biological test data intended to show that two substances or mixtures are equivalent.” Also, when a chemical substance is “equivalent,” it means “that a chemical substance is able to represent or substitute for another in a test or series of tests, and that the data from one substance can be used to make scientific and regulatory decisions concerning the other substance,” as defined in 40 CFR § 790.3.

If testing under TSCA section 4(a) is required of an equivalent chemical substance, the EPA may grant an exemption from testing to the manufacturer or processor of one substance if the information required under TSCA section 4(a) is submitted or is being developed on the other, and the manufacturer or processor submits the following information to support equivalence with its exemption application:

1. The chemical identity of each chemical substance or mixture manufactured or processed by the applicant for which the exemption is sought. The exact type of identifying data required may be specified in this Order and may include all characteristics and properties of the applicant’s substance or mixture, such as boiling point, melting point, chemical analysis (including identification and amount of impurities), additives, spectral data, and other physical or chemical information that may be relevant in determining whether the applicant’s substance or mixture is equivalent to the specific test substance.
2. The basis for the applicant’s belief that the substance or mixture for which the exemption is sought is equivalent to the test substance or mixture.
3. Any other data which exemption applicants are directed to submit in this Order which may have bearing on a determination of equivalence. This may include a description of the process by which each chemical substance or mixture for which an exemption is sought is manufactured or processed prior to use or distribution in commerce by the applicant.

## APPENDIX B - COST SHARING

The EPA encourages Order recipients that are responsible for developing the same information on the same chemical(s) to avoid duplicative testing and share the cost of information development. If a test is conducted according to a final, approved protocol, it is sufficient that the test is conducted once. Two ways to avoid duplicative testing are discussed in this Order. They are forming or joining a consortium, discussed in **Unit VIII**, or requesting an exemption, discussed in **Unit IV.B.3**.

### Consortia

Persons that form or join a consortium typically execute an agreement with the other members of the consortium concerning how costs will be shared and how the consortium will operate.

### Exemptions

Persons that receive exemptions from testing have an obligation to reimburse the person(s) who perform the testing and submit the required information that is the basis for the exemption for a portion of the costs incurred in complying with the requirement to submit such information, and any other person required to contribute to a portion of such costs. Apportionment of costs between persons receiving exemptions and the person who actually conducts the test(s) is ideally negotiated between the companies involved, without the EPA's participation. The Agency has promulgated regulations that explain how the EPA views fair and equitable reimbursement in the context of TSCA section 4(a) test rules. In general, those regulations (40 CFR § 791.40 through § 791.52) make a presumption that a person's fair share of the test costs is in proportion to their share of the total production volume of the test chemical over a specified period of time that begins one calendar year before the effective date of the rule and continues up to the latest data available upon resolution of a dispute. While those regulations do not apply to TSCA section 4 orders, you may wish to consider them as you decide how to share the costs.

If persons subject to an order include a person that has been granted an exemption and agreement cannot be reached on the amount and method of sharing the cost of developing the information, the person whose information is the basis for the exemption may request that the Administrator order the person(s) granted the exemption to provide fair and equitable reimbursement after considering all relevant factors, including the share of the market and the effect on the competitive position of the person required to provide reimbursement in relation to the person to be reimbursed. See TSCA section 4(c)(3)(A). Upon receipt of such a request, the EPA will determine fair and equitable reimbursement and issue an order accordingly. The Agency may, at its discretion, make use of procedures and standards applicable to data reimbursement regarding TSCA section 4 rules, contained in 40 CFR part 791.



## APPENDIX C - HOW TO ACCESS THE CDX APPLICATION AND RECORDKEEPING REQUIREMENTS

### How to Access the CDX Application

The initial response, draft and final study plans, final test reports with underlying data, existing studies, any testing related requests, and all related correspondence must be submitted electronically to the EPA as follows:

1. Submit to the EPA's CDX system. CDX is the point of entry on the Environmental Information Exchange Network (Exchange Network) for submissions to the Agency.
2. The URL for the CDX website is <https://cdx.epa.gov/><sup>17</sup> which takes you to the CDX homepage.
3. On the homepage you may select "Log in" or, if you haven't already registered, select "Register with CDX."
4. Once you have logged on to CDX, follow the instructions for submitting TSCA section 4 order information. To access the instructions, select "Report electronically" on the EPA Internet homepage at <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/electronic-reporting-requirements-certain-information#data><sup>18</sup>.
5. The CDX Help Desk is available for data submission technical support between the hours of 8:00 am and 6:00 pm (EST) at 1-888-890-1995 or [helpdesk@epacdx.net](mailto:helpdesk@epacdx.net). The CDX Help Desk can also be reached at 970-494-5500 for international callers.

The EPA may revise these submission instructions with advance notice.

### Recordkeeping

You must retain copies of all information documenting your compliance with this Order for ten years. This includes your response and other documents and correspondence submitted to comply with this Order, such as test protocols, testing related requests, final test reports with their underlying data, and any penalties remitted.

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<sup>17</sup> <https://cdx.epa.gov/>

<sup>18</sup> <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/electronic-reporting-requirements-certain-information#data>

## APPENDIX D - ORDER RECIPIENT SELECTION

This Appendix describes the process by which the EPA identified recipients of this Order. This information is for your use, and does not govern the obligations under this Order or the identities of the companies subject to this Order. A recipient of this Order that manufactures or processes the chemical as per the definitions provided in **Unit I.B** is subject to this Order, regardless of the basis on which the Agency identified the recipient.

The manufacturers and processors of the chemical subject to this Order were determined in the following manner:

The EPA included in this Order as recipients all companies comprising the final list of manufacturers subject to fee payments<sup>19</sup> for *p*-dichlorobenzene developed under the “Fees for Administration of Toxic Substances Control Act” rule in 2020, as well as, manufacturers identified by other sources, including Toxics Release Inventory<sup>20</sup> (TRI) reporting from 2016 to 2020 and Chemical Data Reporting (CDR) reporting from 2020. The Agency also included in this Order Companies who reported as “Processors” of this chemical to the 2016 to 2020 TRI. Although the EPA recognizes that there are processors who do not report to TRI, this database was used to identify processors for the purposes of this order because it is the Agency’s most comprehensive source to establish a well-verified list of processing companies.

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<sup>19</sup> <https://www.epa.gov/tsca-fees/final-list-fee-payers-next-20-risk-evaluations>

<sup>20</sup> <https://www.epa.gov/toxics-release-inventory-tri-program>

## APPENDIX E - SPECIFIC REQUIREMENTS AND GUIDANCE FOR THIS ORDER

This appendix provides requirements of study plans and test reports for specific testing requirements of this Order. Additionally, this appendix provides additional reference material(s) associated with the testing required in this Order.

For information on how the EPA determined the need for the testing requirements of this Order, refer to **Unit II.B**.

### I. ENVIRONMENTAL HAZARD

#### a. Earthworm Reproduction Test (*Eisenia fetida*/*Eisenia andrei*), OECD 222 (2016)

##### i. Study Plans

Please see **Unit VI.B** of the Order for overall requirements for study plans. Additional requirements specific to OECD 222 include:

1. Final exposure concentrations must capture both lethal and sub-lethal effects over a period of 8-weeks, such that they bracket the Effective Concentration (EC<sub>x</sub>) estimate. To ensure these requirements are met, it is highly recommended that a range finding test is conducted before the initiation of the definitive test.
2. Soil must be mixed and homogenized with the chemical, and the source, purity, and a Certificate of Analysis of the test substance must be reported. The draft study plan will not be approved by the EPA without the purity of the test material.
3. The analytical laboratory must describe how they will conduct analytical verification of the test material at the beginning and end of the test, and every 7-days throughout the test duration.
4. A description must be provided as to whether the use of formulated/artificial or field-collected soil is being implemented (the EPA recommends formulated/artificial soil).
5. An outline must be provided of the raw data to be collected for each sub-lethal and lethal endpoint as well as statistical analyses that are planned.
6. Because 1,1,2-trichloroethane is a volatile substance, a description must be provided as to how the test laboratory will account for volatilization.

##### ii. Test Reports

In addition to the requirements provided by **Unit VI**, test reports submitted to the EPA are due 215 days after effective date of the Order and must include the following, as applicable:

1. Harmonized Template ID: 50-1

2. Harmonized Template URL: <https://www.oecd.org/ehs/templates/harmonised-templates-effects-on-biotic-systems.htm><sup>21</sup>

### iii. References

In addition to generally applicable references provided by **Unit XI**, the following is a list of references specific to this testing requirement:

1. OECD (Organisation for Economic Co-operation and Development). (2016). Test No. 222: Earthworm Reproduction Test (*Eisenia fetida/Eisenia andrei*). Paris, France: OECD Guidelines for the Testing of Chemicals, Section 2, OECD Publishing. <https://doi.org/10.1787/9789264264496-en><sup>22</sup>

### b. Avian Reproduction Test (OCSPP 850.2300)

#### i. Study Plans

Please see **Unit VI.B** of the Order for overall requirements for study plans. Additional requirements specific to OCSPP 850.2300 include:

1. An outline must be provided of the raw data to be collected for each sub-lethal and lethal endpoint as well as statistical analyses that are planned.
2. The study laboratory must describe how they will conduct analytical verification of the test material in the diet at the beginning, middle and end of the test to ensure exposure, and the source, purity, and a Certificate of Analysis of the test substance must be reported. The draft study plan will not be approved by the EPA without the purity of the test material.
3. A description should be provided as to how frequently the test diets will be mixed, to ensure for volatile substance that the concentrations are not reduced from initial concentrations by more than 20%.
4. The Northern bobwhite (*Colinus virginianus*) must be used instead of the mallard (*Anas platyrhynchos*) or other test species recommended in the guideline, because it is less prone to regurgitation and easier to measure food consumption for this species.

#### ii. Test Reports

In addition to the requirements provided by **Unit VI**, test reports submitted to the EPA are due 295 days after effective date of the Order and must include the following, as applicable:

1. Harmonized Template ID: 53
2. Harmonized Template URL: <https://www.oecd.org/ehs/templates/harmonised-templates-effects-on-biotic-systems.htm><sup>23</sup>

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<sup>21</sup> <https://www.oecd.org/ehs/templates/harmonised-templates-effects-on-biotic-systems.htm>

<sup>22</sup> <https://doi.org/10.1787/9789264264496-en>

<sup>23</sup> <https://www.oecd.org/ehs/templates/harmonised-templates-effects-on-biotic-systems.htm>

### iii. References

In addition to generally applicable references provided by **Unit XI**, the following is a list of references specific to this testing requirement:

1. Elovaara, E., Hemminki, K., Vainio, H. (1979). Effects of Methylene Chloride, Trichloroethane, Trichloroethylene, Tetrachloroethylene and Toluene on the Development of Chick Embryos. *Toxicology*, Volume 12, Issue 2, Pages 111-119, ISSN 0300-483X. [https://doi.org/10.1016/0300-483X\(79\)90037-4](https://doi.org/10.1016/0300-483X(79)90037-4)<sup>24</sup>
2. U.S. EPA (2012). OCSPP 850.2300: Avian Reproduction Test [EPA 712C-023]. Washington DC: U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention (OCSPP). <https://www.regulations.gov/document/EPA-HQ-OPPT-2009-0154-0012><sup>25</sup>
3. U.S. EPA (2020). Final Guidance for Waiving Sub-Acute Avian Dietary Tests for Pesticide Registration and Supporting Retrospective Analysis. Washington DC: U.S. Environmental Protection Agency, Office of Pesticide Programs (OPP). <https://www.epa.gov/sites/default/files/2020-02/documents/final-waiver-guidance-avian-sub-acute-dietary.pdf><sup>26</sup>
4. USGS. (1991). USGS Monitoring Data: National Water Quality Monitoring Council [Database] – Air, Groundwater, Sediment, Soil, Surface Water, Tissue. <http://www.waterqualitydata.us/portal/><sup>27</sup>

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<sup>24</sup> [https://doi.org/10.1016/0300-483X\(79\)90037-4](https://doi.org/10.1016/0300-483X(79)90037-4)

<sup>25</sup> <https://www.regulations.gov/document/EPA-HQ-OPPT-2009-0154-0012>

<sup>26</sup> <https://www.epa.gov/sites/default/files/2020-02/documents/final-waiver-guidance-avian-sub-acute-dietary.pdf>

<sup>27</sup> <http://www.waterqualitydata.us/portal/>