

RAINFOREST ALLIANCE

GUIDANCE

Empty pesticide container disposal in
Vietnam

Version 1



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ALLIANCE**



The Rainforest Alliance is creating a more sustainable world by using social and market forces to protect nature and improve the lives of farmers and forest communities.

Translation Disclaimer

For any question related to the precise meaning of the information contained in the translation, please refer to the official English version for clarification. Any discrepancies or differences in meaning due to translation are not binding and have no effect for auditing or certification purposes.

More information?

For more information about the Rainforest Alliance, visit www.rainforest-alliance.org or contact info@ra.org

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This guidance document is non-binding. This means that this document provides important information to help readers understand, interpret and implement the requirements set out in the documents listed in the section "linked to" above. However, following the guidance in this document is not mandatory.



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OBJECTIVE

This document is intended to help (groups of) farms seeking Rainforest Alliance certification and Rainforest Alliance certified farms understand and implement an empty pesticide container handling, collection, and disposal system in Vietnam.

SCOPE

This document covers requirement 4.6.9 of the 2020 Rainforest Alliance Sustainable Agriculture Standard 1.1 for the geographical scope of Vietnam.

AUDIENCE

This document is intended for Certificate Holders and farms seeking certification in Vietnam.




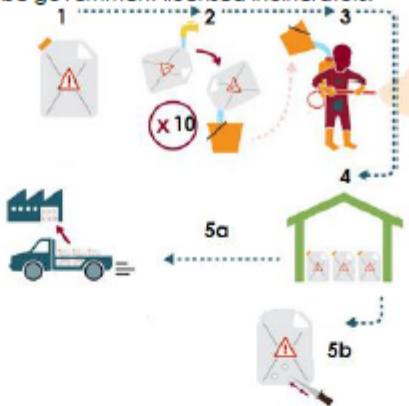

GUIDANCE

What does the requirement say?

4.6.9	<p>Empty <u>pesticides</u> containers and application equipment are washed three times, and rinsing water is used in the last batch of the mix to apply to the crop. After application of pesticides, application equipment is washed three times, and the surplus mix is disposed of in way that minimizes the negative impact on the environment and human health, by diluting it with ten times the amount of clean water and applied evenly on the field that was subject of the pesticide application.</p> <p>The empty pesticide containers are kept in a locked storage area until safely disposed of through a formal collection, and recycling program or returned to the supplier. If the supplier does not accept empty containers, they are cut or perforated to prevent other uses.</p> <p>Prohibited, <u>obsolete</u> and expired pesticides are returned to the supplier or local authority. In absence of a collection system in place, these products are labelled and stored safely and separately from other products in a locked space.</p>
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What does the implementation guide say?

4.6.9	EMPTY PESTICIDES CONTAINERS
<p>Guidance on applicability</p> 	
<p>Purpose</p> 	<p>Ensure that empty <u>pesticide</u> containers are disposed of safely, and that prohibited, <u>obsolete</u>, and expired pesticides are managed safely to avoid negative impacts on the environment and human health.</p>
<p>Implementation guidance</p> 	<ul style="list-style-type: none"> CH manages the empty <u>pesticide</u> containers as follows: <ul style="list-style-type: none"> Wash the containers and application equipment 3 times. Use the surplus mix, diluted with 10 times the amount of clean water, and apply evenly on the field subject to the pesticide application. Keep pesticide containers in a locked storage area until safely disposed of through a formal collection and recycling program, or return the containers to the supplier if they accept the containers. <p>This also applies to prohibited, obsolete, and expired pesticides.</p> <ul style="list-style-type: none"> When no formal collection or recycling system is available, the containers are cut or perforated to prevent other uses. After containers have been cut or perforated, they can be brought to specific landfill sandpits, or destroyed using high-temperature incineration according to what is allowed under national legislation. These can be government licensed incinerators.  <ul style="list-style-type: none"> For <u>groups</u>, it is recommended to establish a collection system for all group members to properly dispose of <u>pesticide</u> containers. For <u>large farms</u>, it is recommended to discuss with the agrochemical dealers and sector platforms to share responsibility on how to dispose of containers, based on the mutual benefit for the business. Another recommendation is to check if suppliers may support the collection of containers when products are purchased from them.
<p>Evidence and Indicators</p> 	<ul style="list-style-type: none"> ✓ Empty containers management procedure. ✓ Records kept of disposal. ✓ Pesticide storage records.
<p>Annexes and other references</p>	<p>FAO/WHO, Rome/Geneva.2008, see http://www.fao.org/fileadmin/templates/agphome/documents/Pests_Pesticides/Code/Containers08.pdf</p>

What does Vietnamese law say?

In Vietnam the Law On Environmental Protection No. 55/2014/QH13 dated June 23, 2014 defines hazardous waste in the following way:



Hazardous waste (HW)

Refers to the waste that exhibits one or more hazardous traits such as toxicity, reactivity, infectivity, ignitability, corrosivity, or other poisonous characteristics. This includes HW from agriculture production including pesticides, preservatives, herbicides etc. that contains heavy metals or other hazardous substances harmful to the environment.

Hazardous Waste Management (HWM)

Refers to the process of prevention, control, minimization, monitoring, classification, collection, transportation, reuse, recycling, and disposal of waste.

In relation to the classification, collection, and storage of hazardous wastes prior to processing Article 91. of the Law On Environmental Protection No. 55/2014/QH13 says:

1. Every entity that discharges hazardous wastes must collect, store, and process hazardous wastes in accordance with environmental standards; if the entity that discharges hazardous wastes fails to process hazardous wastes in accordance with environmental standards, hazardous wastes shall be transferred to an entity licensed to process hazardous wastes.
2. Hazardous wastes must be kept in specialized containers that ensure no negative impacts on humans and the environment.

Responsible parties in HWM

The Law on Environmental Protection also describes roles and responsibilities of actors involved in the processes in the following ways:

Pesticides users (in the Rainforest Alliance context: farmers, group members, workers):

- Collect empty pesticide containers (EPCs) and put into storage tanks;
- Keep the pesticide packages for use separately from other kinds of waste;
- Not use EPCs for other purposes;
- Not burn or bury EPCs after use.

Companies (in the Rainforest Alliance context: farm/group management at Certificate Holder level) directly investing in the agricultural and forestry activities generating EPCs:

- Organize the collection of their EPCs;
- Contract licensed company (**service provider**) for hazardous waste transport and treatment;
- Undertake the responsibilities of the waste generator as stipulated under Circular No. 36/2015/TT-BTNMT;
- Bear the costs for the construction of tanks, collection, transportation and treatment of EPC.

The diagram below shows the flow of responsibilities for the disposal of empty pesticide containers from the users (at the bottom) to the company and licensed service providers (at the top)

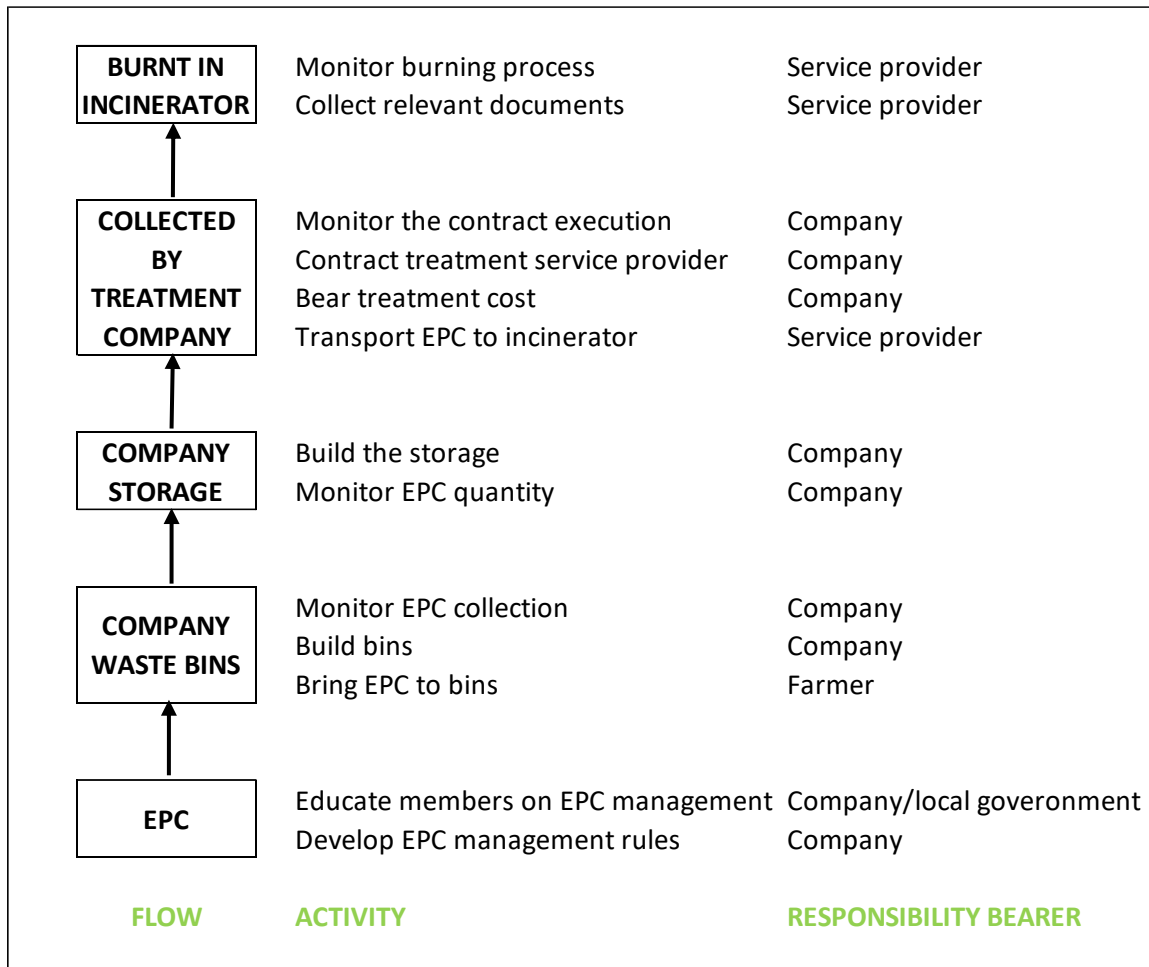


Figure 1 EPC disposal flow

A list of companies licensed by the government to handle hazardous waste can be found in annex 1. These companies can also arrange licensed transport of hazardous waste.



Bins

EPC bins can have many shapes or forms, see figure 2 for examples. Any type of locked storage is acceptable, including storage rooms. What is important is that only trained handlers have access to the EPCs.



Figure 2 Example of EPC collection bins

Summary

Certificate holders have to make sure that there are:

1. EPC bins or storage (locked and accessible only to trained handlers)
2. Group members/workers are instructed on location and use of bins/storage
3. Group members/workers are inspected on the use of bins/storage. Certificate holders are encouraged to develop a reward/sanction system for group members
4. Contracts with licensed waste handlers to periodically collect EPCs



ANNEX 1 LIST OF COMPANIES LICENSED TO HANDLE HAZARDOUS WASTE

LIST OF COMPANIES AND ENTERPRISES THAT ARE GRANTED PERMISSION BY VIETNAM ENVIRONMENT ADMINISTRATION TO DISPOSE OF HAZARDOUS WASTE ACCORDING TO CIRCULAR NO. 12/2011/TT-BTNMT, THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT ISSUES PERMISSION ACCORDING TO CIRCULAR 36/2015/TT-BTNMT (Updated On 21/5/2018)

No.	Company granted permission	Address (Office, plant) Phone number, fax number, email address	Permission number	Date of issue	Province where processing plant is based
Companies located in the tea producing area in the north					
1	Nguyet Minh 2 Trading – Services – Environment Co., Ltd	Office - Block HF15, Road no. 4, Xuyen A Industrial Park, Duc Hoa district, Long An province Phone: 0723 751914 moitruongnguyetminh2@gmail.com Plant: Nguyet Minh 2 Waste Treatment and Recycle Plant Hazardous waste transfer station: Hazardous waste storage of COVI Waste Recycle Co., Ltd Address: Binh Xuyen Industrial Park, Binh Xuyen district, Vinh Phuc province Phone: 0211.3593768 Fax: 0211.3593768 E-mail: covirecycling@gmai.com	1-2-3-4-5-6.001.VX	12/4/2016	Vinh Phuc
9	Environment & Green Industry Co., Ltd	Office – No. 1, alley 100 Hoang Quoc Viet street, Nghia Do ward, Cau Giay district, Hanoi Phone: 04 73026866 cnmtcnx@gmail.com Plant – Waste Treatment and Recycle Center Xuan Mai 1 Zone, Phuc Thang ward, Phuc Yen city, Vinh Phuc province Phone: 0211 3219010 Fax: 0211 3875874 Transfer station: Address: Xuan Mai, Phuc Thang, Phuc Yen, Vinh Phuc	1-2-3-4-5.009.VX	2/10/2015	Vinh Phuc



16	Phu Ha Environment Co., Ltd	<p>Office: No. 124, Group 16, Dong Anh Town, Dong Anh district, Hanoi Phone: 04.39681666 Fax: 04.39650106 moitruongphuha.info@gmail.com</p> <p>Plant- Industrial and Medical Waste Treatment Plant Address: Tram Than commune, Phu Ninh district, Phu Tho province Phone : 0210.3764765 Fax : 0210.3764766</p> <p>Transfer Station (Storage of Phi Dai Loc Environment Co., Ltd) Address: Rung Sen village, My Hanh Bac commune, Duc Hoa district, Long An province</p>	1-2-3-4-5-6.016.VX	31/5/2016	Phu Tho Long An
18	Phuc Loi Trading and Services Cooperative (Permission expired)	<p>Office: Group 11, Gia Sang ward, Thai Nguyen city, Thai Nguyen province Phone: 0280.3757031 Fax: 0280.3852224 htxphucloi.tn@gmail.com</p> <p>Plant: Industrial Waste Treatment and Recycle Plant Address: Khe Da Mai, Tan Cuong commune, Thai Nguyen city, Thai Nguyen province Phone: 0280.3757031 Fax: 0280.3852224</p>	1-2-3-4-5.018.VX	15/9/2014	Thai Nguyen
		<p>Agency No. 1: Linh Khoi Private Enterprise Address: Doc Van, Mai Lam commne, Dong Anh district, Hanoi Phone 0436983364 Fax: 0433983363</p>			
20	Thai Nguyen Non-ferrous Metal One-member Co., Ltd (operation suspended)	<p>Office: Phu Xa commune, Thai Nguyen city, Thai Nguyen province Phone: 0280.3847229 Fax: 0280.3847097 thainguyentmc@gmail.com</p> <p>Plant: Non-ferrous Metal Enterprise II Address: Tan Thanh ward, Thai Nguyen city, Thai Nguyen province Phone: 0280.3845071 Fax: 0280.3845071</p>	1-2-3-4-5-6-7-8.020.VX	5/3/2014	Thai Nguyen
43	Chemical-pharmaceutical and Organic Bio-chemical Technology Co., Ltd	<p>Office- House 2C, High-tech Zone, No. 18 Hoang Quoc Viet street, Cau Giay district, Hanoi Phone: 04 7564996 Fax: 04 7564996</p> <p>Plant- House 2C, High-tech Zone, No. 18 Hoang Quoc Viet street, Cau Giay district, Hanoi</p>	1-2-3.043.VX	31/8/2016	Hanoi



54	Song Tinh Co., Ltd	<p>Office&Plant – Xuan Mai I street, Phuc Thang ward, Phuc Yen city, Vinh Phuc province Phone: 0211.3873530/3870902 Fax: 0211.3530204/3530205 ct.songtinh@gmail.com;</p>	1-2-3-4.055.VX	26/5/2015	Vinh Phuc
55	Viet Bac Non-ferrous Metal Joint Venture Company	<p>Office&Plant – Diem Thuy Minor Industry Cluter, Diem Thuy commune, Phu Binh district, Thai Nguyen province Phone: 0280 3769769 Fax: 0280 3769247 E-mail: ducanhmt@gmail.com</p>	1-2-3-4-5-6.056.VX	23/10/2017	Thai Nguyen
67	Hung Phat Urban Environment Co., Ltd (previously Ha Ngoc Urban Environment Co., Ltd)	<p>Office&Plant: Dong Sai village, Phu Lang commune, Que Vo district, Bac Ninh province Phone: 0241.3624899 Fax: 0241.3624899 Email: moitruongdothi@hungphat.org.vn Hazardous Waste Transfer Station 1 (rented from Thang Huong Commercial Transport and Environment Trading Co., Ltd): Address: Tien Hai Zone, Ai Quoc ward, Hai Duong province Phone: 0320.3751178 Fax: 0320.3751178 Hazardous Waste Transfer Station 2 (rented from Dong Anh Environmental Hygienic High-tech Application Services JSC) Address: Bai Duong Dua, Xuan Non village, Xuan Non commune, Dong Anh district, Hanoi. Phone: 04.39682919 Fax: 04.39682919 Hazardous Waste Transfer Station 3 (rented from The Binh Construction and Trade Co., Ltd) Address: Dong Soc Industry Cluster, Vu Di commune, Vinh Tuong district, Vinh Phuc province Phone: 02113.785.222 Fax: 02113.785.222 Hazardous Waste Transfer Station 4 (rented from Nhat Anh Environment and Technology Trading Co., Ltd): Address: Hoa Son village, Nam Son commune, Soc Son district, Hanoi Phone: 04.35954183 Fax: 04.35954183</p>	1-2-3-4.068.VX	31/5/2016	Bac Ninh Transfer station: Hai Duong Hanoi Vinh Phuc
77	Covi Waste Recycle Co., Ltd	<p>Office&Plant: Binh Xuyen Industrial Park, Binh Xuyen district, Vinh Phuc province Phone: 0211 3593768 Email: trungcovi@gmail.com</p>	1-2-3-4.078.VX	25/6/2015	Vinh Phuc



85	Anh Dang Environmental Services Co., Ltd	Office&Plant: Quyet Tien 2 village, Huong Son town, Phu Binh district, Thai Nguyen province Phone: 0280.6558666 Fax: 0280.6558666 E-mail: anhdangwaste@gmail.com	1-2-3-4-5-6.086.VX	26/10/2015	Thai Nguyen
89	Khanh Du Trading Co., Ltd	Office&Plant: Dong Lac village, Dong Van commune, Yen Lac district, Vinh Phuc province Phone: 0211.2217664 Fax: 0211.3857664 E-mail: thepkhanhdu@gmail.com	1.090.VX	16/2/2016	Vinh Phuc
90	Viet Xuan Moi Environment JSC	Office: Village 2, Minh Duc commune, Pho Yen city, Thai Nguyen province Phone: 02803 865 568 Fax: 02803 865 568 moitruongvietxuan@gmail.com Plant: Waste Disposal Plant - Viet Xuan Moi Environment JSC Address: Village 2, Minh Duc commune, Pho Yen city, Thai Nguyen province	1-2-3-4-5-6.091.VX	16/5/2017	Thai Nguyen
Companies located in the coffee and pepper producing area in the central highlands					
88	An Sinh Trade and Construction Co., Ltd	Agency 01: Duc Khanh Environmental Treatment One-member Co., Ltd Address: No. 58/8 Tan Thang Quarter, Tan Binh ward, Di An city, Binh Duong province Phone: 0650.3738056 Fax: 0650.3738056 Agency 02: Viet Environment Trade and Services Co., Ltd Address: No. 10E Ho Xuan Huong Road, Ward 9, Da Lat city, Lam Dong province Storage: Block A1-A22 Hoa Phu Industrial Park, Hoa Phu commune, Buon Me Thuot, Dak Lak Phone: 0633 561234 Fax: 0633 561234	1-2-4-5-6-7-8.089.VX	29/01/2016	Lam Duong