

TO: CPM-18

RE: INF Paper: Prevention of Pest Contamination of Containers: Revised Joint Industry Guidelines for Cleaning of Containers

Date: 26 March 2024

Introduction

Containers and their cargoes can carry and facilitate the introduction and spread of pests that may pose a serious risk to agriculture, forestry, and natural resources.

Minimizing visible pest contamination of containers and their cargoes is a shared responsibility of the parties in the international containerized supply chains. By applying best practices, built around the "custodial responsibility" approach — which is described in the draft revised Recommendation before CPM-18 on "Minimizing the pest risk associated with the sea-container pathway" - these parties can keep containers and their cargoes clean from visible pests. This will help to prevent the introduction and spread of pests through international commerce.

Revised Joint Industry Guidelines for Cleaning of Containers

The packing of sea containers with cargo is the most likely stage in the sea container supply chain at which pest contamination can occur. Shippers and packers should therefore implement measures designed around the packing process. However, others in the international container supply chains should also implement measures to reduce the risk of pest contamination designed for when the container is in their control.

The Revised Joint Industry Guidelines, reproduced in the Annex, provide guidance on how this may be achieved by the various container custodians in the supply chain while in their custody. Compared to earlier versions of the Guidelines, this new version describes in much more detail the applicability of the custodial responsibility approach to both containers packed with cargo and empty containers.

The Guidelines may also be accessed via the WSC's website at Pests — World Shipping Council.

The development of the Guidelines was led by the World Shipping Council (WSC) in cooperation with Bureau International des Containers (BIC), and was supported by Container Owners Association (COA), International Cargo Handling Coordination Association (ICHCA) and the Institute of International Container Lessors (IICL).

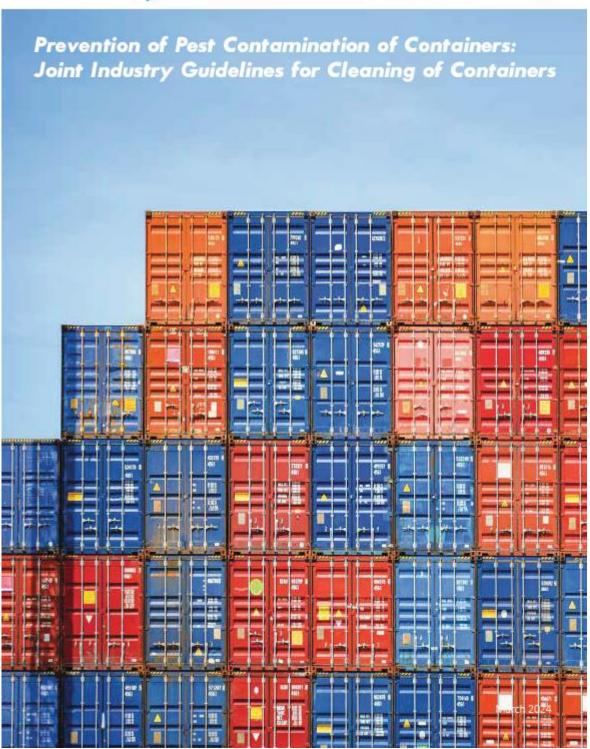












Prevention of pest contamination of containers: Joint Industry Guidelines for Cleaning of Containers

Jointly prepared by:



The Bureau International des Containers (BIC) was founded in 1933 under the auspices of the ICC as a neutral, non-profit, international organization. BIC seeks to promote efficiency, safety, security, standardization and sustainability in the container supply chain. Publisher of the BIC Code Register since 1970, BIC also operates other industry databases, including the BoxTech Global Container Database (bic-boxtech.org), the BIC Facility Code Database, and the Global ACEP Database. BIC holds official observer status at IMO, WCO, and UN/CEFACT. BIC participated in developing the CTU Code.

More information is available at: www.bic-code.org



CONTAINER OWNERS ASSOCIATION

The Container Owners Association is the international organisation representing the common interests of all owners of freight containers. The principle aims of the COA are to provide global expertise, to promote common standards and to facilitate international lobbying.

More information is available at: www.containerownersassociation.com



ICHCA - International Cargo Handling Coordination Association

Established in 1952, ICHCA International is an independent, not-for-profit organisation dedicated to improving the safety, productivity and efficiency of cargo handling and movement worldwide. ICHCA's privileged NGO status enables it to represent its members, and the cargo handling industry at large, in front of national and international agencies and regulatory bodies, while its Technical Panel provides best practice advice and develops publications on a wide range of practical cargo handling issues. Operating through a series of national and regional chapters, including ICHCA Australia, ICHCA Japan and Correspondence and Working Groups, ICHCA provides a focal point for informing, educating, lobbying and networking to improve knowledge and best practice across the cargo handling chain.

More information is available at: www.ichca.com



The Institute of International Container Lessors (IICL) is the leading trade association of the container and chassis leasing industry. The IICL's membership engages in leasing marine cargo containers and chassis to vessel operators and other organizations on a broad international basis. Members own or manage a significant portion of the global leased container and U.S. chassis fleets.

More information is available at: www.iicl.org



The World Shipping Council (WSC) is the united voice of liner shipping, the international container and vehicle carriers that make global trade possible. We work with policymakers and industry groups to shape the future growth of a socially responsible, environmentally sustainable, safe, and secure shipping industry. We are a non-profit trade association with offices in London, Brussels, Singapore and Washington, D.C. The WSC has observer status with the IMO and the WCO and was actively involved in the development of the CTU Code. WSC has for the past several years also been actively involved in efforts to minimize pest risks in the sea container pathway at the IPPC; it is also a member of the North American Sea Container Initiative (NASCI).

More information is available at: www.worldshipping.org

Introduction

There is international consensus among competent authorities that containers and their cargoes can carry and facilitate the introduction and spread of pests that may pose a serious risk to agriculture, forestry, and natural resources. The packing of sea containers with cargo is the most likely stage in the sea container supply chain at which pest contamination can occur. Shippers and packers, acting on behalf of shippers, should implement measures to minimise pest contamination during packing. Others in the international container supply chains should also implement measures to reduce the risk of pest contamination while the container is in their control.

These measures, referred to as best practices, should be in accordance with the parties' roles and responsibilities in the supply chains and should take into consideration all safety and operational constraints.¹

Minimizing pest contamination of containers and their cargoes is a shared responsibility and by applying best practices described in this Guide these parties can keep containers and their cargoes clean. This will help to prevent the introduction and spread of pests through international commerce. Containers are also likely to move through ports and reach their final destinations faster and with less expense if they are clean.

These guidelines are complementary to the guidance given in various guidelines published by the IPPC and in the IMO/ILO/UNECE Code of Practice for Packing Cargo Transport Units ("CTU Code") regarding prevention of pest contamination of containers.²

Chapter 4 of the CTU code, "Chains of Responsibility and Information" states in para.4.1.4:

"All persons involved in the movement of CTUs also have a duty to ensure, in accordance with their roles and responsibilities in the supply chain, that the CTU is not infested with plants, plant products, insects or other animals...".

The purpose of this document is to provide guidance on how this may be achieved by the various container custodians in the supply chain for those containers that are in their direct control.

These guidelines are not intended to replace individual container operators' cleaning guidelines. Nor do they replace applicable local regulatory pest contamination measures and requirements.

Finally, these guidelines are additional to industry guidelines regarding container cleanliness for non-pest contamination such as paint, oil etc.; such non-pest contaminations fall outside the scope of this document.

s See container supply chains and cleanliness, IPPC, March 2020. (<u>https://www.lau.org/documents/cont/en/c/ca7963en</u>) ²The CTU Code can be accessed at: (https://www.lma.org/en/Cu/Work/Safety/Pages/CTU-Code.aspx)

Interchange Events and Custodial Responsibilities

The following tables identify the various points of change of custody ("interchange events") of a container in the supply chain and responsibility for measures that, in accordance with the guidance from the IPPC and in the CTU Code are required to minimise visible pest contamination.

In conformance with the CTU Code, "pest contamination" means visible forms of animals, insects or other invertebrates (alive or dead, in any lifecycle stage, including egg casings or rafts), or any organic material of animal origin (including blood, bones, hair, flesh, secretions, excretions); viable or non-viable plants or plant products (including fruit, seeds, leaves, twigs, roots, bark, intact or broken wood packing material, including dunnage); or other organic material, including fungi; or soil, or water; where such products are not the manifested cargo within the container".

Further, "visible" means detectable by the human eye without the aid of any supporting instruments or aids such as magnifying glasses and microscopes".3 It is stressed that whenever reference is made in these guidelines to "pest contamination" it should be understood and read to mean "visible" such contamination.

See IMO MSC1,/Clrc.1649 Guidelines for the implementation of the inspection of Carea Transport Units.
Note: The lables are without prejudice to existing local requirements of either the export, import packing and/or unpacking.

Note: These guidelines use the definitions in the estating CTU Code; they may be revised if and when a new version of the CTU

Custodial Responsibilities* for Pest Contamination Prevention – a Schematic Description

	EXPORT								IN TRANSI ON SHIP					
	Depot	Termi	inal	Rail Ya	rd	Pack Point		Depot Rail Yard		Terminal, inci transhipment terminals	_			
						Carrier	Haulage ⁴					•	•	
Interchange event	Empty Gate-out					impty N	Empty OUT			Full Gate-in		Full Gate-in	Full Loading	
Custodial responsibility	Carrier's Haulier			Carrier's Shipper Haulier & Packer		Carrier's Haulier	Depot Operator		Yard Operator		Terminal Operator	Terminal Operator	Carrier	
						Mercha	ınt Haula	je ⁵						
Interchange event	Empty Gate-out		pty te-out	Empty Gate-o		mpty	Full	Ful	te-in	Full Gate-	. 1	Full Gate-in	Full Loading	
Custodial responsibility	Shipper's Haulier		pper's ulier	Shipper Haulier	's S		Shipper's Haulier		pot erator	Yard Open		Terminal Operator	Terminal Operator	Carrier
	T						IMPOR	T						
		Empty Return/Po						Return/Pos	ition					
Discharge from Vesse			I .		Dep	epot Rail		Unpack Location		Terminal	Depot	Rail Yard		
_							Carrier Ha	ula	ge .					
Interchange event	Full Discharg	1.2		Full F Gate-out C		e-out	Full Gate-out		Full IN	En Ol	npty JT	Empty Gate-In	Empty Gate-In	Empty Gate-In
Custodial responsibility						rier Carrier Ilier Haulier			Client		rrier aulier	Terminal Operator	Depot Operator	Yard Operator
						- 1	Merchant	Hau	llage					
Interchange event	Full Discharge				Full Gate	e-out	Full Gate-out	t	Full IN		npty JT	Empty Gate-In	Empty Gate-In	Empty Gate-In
Custodial responsibility	Terminal		Client's Client's Haulier Haulier			Client's Haulier			Cli	ient	Terminal Operator	Depot Operator	Yard Operator	

The container operator is responsible for providing a clean container either directly to the shipper customer or, as shown in this table, via a container depot, terminal, or rail yard. It is then the responsibility of every subsequent container custodian in the supply chain to ensure that the container remains clean and free from visible pests at every point of interchange above. However, inspection of the interior of packed containers cannot be undertaken by intermediary custodial parties following the sealing of the container by the shipper or the packer on its behalf; consignees should undertake such inspection of the interior of the packed container upon removal of the seal.

It is the responsibility of the receiving container custodian to determine whether the previous custodian has met their responsibility and inform them and hold them accountable in case this has not been done. Persons that handle and pack cargoes into containers are also responsible for ensuring that the cargo is free from pest contamination.

Table shows the new custodial responsibility triggered by the indicated preceding interchange event. Carrier Hausige is when the container transport is arganised by the ocean carrier. Merchant histogies is when the menchant, which may be the compowner, consignor or shipper, arranges the container transport through their appointed service providers (e.g. trucking company).

Inspections and Actions by Container Custodians

The IPPC has published guidance to national plant protection organizations (NPPOs) on how to inspect and record contamination details in a safe, consistent, and harmonized manner when carrying out sea container cleanliness surveys. Container custodians should consult the IPPC's inspection guidance when planning for and undertaking container inspections.

The table below describes inspection and other measures that container custodians should undertake to minimize pest risks in the sea container pathway. The custodial responsibilities approach set out in these guidelines embody that the receiving container custodian should inform the tendering container custodian if the container and its cargoes have visible presence of pest contamination. This information requirement applies to all parties in the international container supply chains; it has not been repeated for each interchange event in the table below but does nevertheless apply for each event.

Note: In the table below it should be understood that by accepting the container, the new custodian accepts that the previous custodian has met their responsibilities especially in terms of pest contamination.

Where	Interchange event	Inspection	Responsible Party	Responsibility / Action	
Container depot/Rail Yard	Gate in EMPTY	Structural deficiencies, internal cleanliness, visible pest contamination on the exterior and interior of the container	Depot (for container operator) Haulier	Acceptance of pest-free container Handover of pest-free container to depot	
Container depot/Rail Yard	Gate Out EMPTY	Internal cleanliness, overall condition, suitability for cargo, visible pest contamination on the exterior and interior of the container	Depot (for container operator)	Handover of clean, pest- free container only to haulier	
Container depot/Rail Yard	Pick up EMPTY for transport to Pack location	Container Number, obvious defects, visible pest contamination on the exterior or interior of the container	Haulier	Acceptance of clean, pest-free container only	
Pack point	Receipt for packing	Internal cleanliness, overall condition, suitability for cargo, visible pest contamination on the exterior and interior of the container and of the cargoes to be packed into the container	Shipper or Packer on behalf of shipper	Acceptance of clean, pest free container only	
Pack point	Pick up for transport to Terminal	Container Number, Seal number, obvious major defects, visible exterior pest contamination	Haulier	Acceptance of pest-free container only	
Export Terminal	Gate In	Container Number, Seal number, obvious major defects, visible exterior pest contamination ⁸	Terminal	Acceptance of pest-free container only; report presence of pest to container operator, or reject per local protocol	

^{*} https://www.ippc.int/inr/publications/90444/.
**Visible* means detectable by the human eye without the old of any supporting instruments or olds such as magnifying glasses and microscopes. This applies to both the exterior and interior of the container, however, as discussed, it may not be possible to inspect the roof and undercurriage of the container for visible trace soil and other pest contamination.

inspect the roof and undercarr Exception - Automated gates.

^{*}Automated terminals may present particular challenges for detecting such confamination. Technologies such as cameras and e-DNA are being trialled and should be considered.

Where	Interchange event	Inspection	Responsible Party	Responsibility / Action	
Export Terminal	Load on Ship	Container Number, obvious major defect, visible exterior pest contamination ⁹	Terminal	Load only pest-free containers, Report presence of pests to container operator and/or to responsible authority, as required	
On ship	Container is in transit aboard ship	Appropriate pest prevention measures should be implemented. Regulatory requirements, e.g. regarding Flighted Spongy Moth Complex (FSMC), must be followed.	Carrier	Inspection of the exterior of on-deck containers to look for, remove (scrape off) and properly dispose of or destroy all egg masses and other life stages of insects such as FSMC, where required.	
Transhipment Terminal	Unload/Load from/to Ship	Container Number, Seal number, obvious major defect, visible exterior pest contamination ¹⁰	Terminal	Report presence of pests to container operator and/or to responsible authority, as required	
Import Terminal	Unload from Ship	Container Number, obvious major defect, visible exterior pest contamination ¹¹	Terminal	Report presence of pests to container operator and/or to responsible authority, as required	
Import Terminal	Pick up for transport to Unpack location	Container Number, Seal number, obvious major defects, visible exterior pest contamination	Haulier	Accept pest-free container only, or reject container	
Unpack Receipt for unpacking		Container Number, Seal number, obvious defects, visible pest contamination on the exterior and interior of the container and of the cargoes being unpacked from the container	Consignee	Accept pest-free container only, report visible pest contamination to responsible authority, as required; prevent contamination	
ocation return obli		Internal cleanliness (contractual obligation), visible pest contamination on the exterior and interior of the container	Consignee	Ensure clean, pest-free container; prevent contamination	

^{*}Automated lerminata may present particular challenges for detecting such confamination.

Technologies such as cameras and EDNA are being tribiled and should be considered.

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Custodial Responsibilities for Pest Prevention - EMP	TIES				
Container Terminals					
Empties for loading on ships	Empties discharged from ships				
While containers are waiting to be loaded, the measures described in the IPPC guidelines ¹² and further detailed in Annex 6 of the CTU Code «Minimizing the risk of recontamination» should apply, based on the principle «gated in clean, stay clean». After loading of the empty container aboard ship, and during the ship's voyage, the carrier should ensure appropriate pest prevention measures are in place.	After being discharged and while containers are waiting to be released to hauliers, the measures described in the IPPC guidelines and further detailed in Annex 6 of the CTU Code «Minimizing the risk of recontamination» should apply.				
Depots &	Rail Yards				
Empties for release for packing	Empty returns/Empty positioning				
For Clean containers waiting to be released to hauliers, the measures described in the IPPC guidelines and further detailed in Annex 6 of the CTU Code «Minimizing the risk of recontamination» should apply.	Containers should be inspected for visible pest contamination and cleaned of any contamination on receipt and before repair and preparation for cargo.				

Inspections and Safety

Inspections should only be conducted when it is safe to do so. Prior to inspection, the IPPC's inspection guidance should be consulted. Specifically, and due to safety requirements or other operational constraints, inspections of the exterior of containers, and in particular their understructures ("undercarriages") and roof, should be subject to a thorough risk assessment with suitable safety management controls put in place.

No persons should be exposed to uncontrolled risk during any part of the inspection process. If an uncontrolled risk arises during an inspection, the inspection should be suspended. The inspection should not continue until suitable measures have been put in place that mean it is safe to continue the operation. The need to inspect should never override the safety of those undertaking (or others who might be affected by) the work.

^{*} Ico.org/3/cc/7740en/CA7740EN.pdf

Container Cleanliness

The container operator is responsible for providing a clean container either directly to the shipper customers or, as the case may be, via a container depot, terminal, or rail yard. It is the responsibility of every subsequent container custodian to ensure that the container remains clean and free from visible pests at every interchange point discussed above. However, inspection of the interior of packed containers cannot be undertaken by intermediary custodial parties following the sealing of the container by the shipper or the packer on its behalf; consignees should undertake such inspection of the interior of the packed container upon removal of the seal.

It is imperative that no attempt is made to enter a container until any unknown residue has been identified and the appropriate safety precautions have been taken.

For the purpose of these guidelines, "clean" means that the empty container's exterior and interior and, for reefer containers, also ventilation inlet grilles and floor drain holes, should, at the time of dispatch or at interchange, have no visible presence of any of the following:

- Soil
- · Plants/plant products/plant debris
- Seeds
- Moths, Wasps, Bees
- · Snails, Slugs, Ants, Spiders
- Mould and Fungi
- Frass (insect and bird droppings or waste)
- Egg sacs
- Animals, animal parts/ blood/excreta and reproductive components or parts thereof
- Other contamination that shows visible signs of harbouring pests.

Cleaning methods for visible pest contamination14

This section contains recommendations on cleaning methods for visible pest contamination. In cases of doubt about how to proceed, the local National Plant Protection Office (NPPO) or, if animal origin contamination, the local Quarantine Office should be contacted for guidance.

Proper consideration should be given to disposal of pest contamination residues to minimize the potential for pests to flourish.

Seeds and Plant parts

Sweep up or vacuum ensuring that all residues collected are sealed in an airtight bag and stored for disposal. Dispose of bags based on advice from the local NPPO or plant quarantine organisation.

Insects, Egg masses and Nests

Minimize risks of escape of live insects. Incapacitate live insects, larvae or pupae using an insecticide spray, fumigation or other means as advised by the local NPPO. All egg masses, nests etc. should be sealed and all inhabitants be rendered incapable of escape and/or incapacitated.

Sweep, vacuum or scrape up ensuring that all residues collected are sealed in an airtight bag and stored for disposal. Dispose of bags based on advice from the local NPPO or plant quarantine organisation.

Soil, Dirt, Mud

When and where deemed safe, remove soil, dirt, or mud on the exterior and interior by scraping, sweeping, or washing. Remove the material from the top down to avoid recontaminating an area already cleaned.

If scraping and/or sweeping is used the residues should be collected and sealed in a bag for future disposal. Dispose of bags based on advice from the local NPPO or quarantine office.

Soil, dirt, or mud removed by washing may, pursuant to local environmental regulations, be allowed to drain away with the wash water, subject to any requirements that wash water residues are appropriately treated to prevent that pests escape to the local environment.

Soil, dirt, or mud on the exterior that can be clearly identified as having come from the depot location, where the cleaning is carried out, may be disposed of in accordance with existing practices for general cleaning residues.

The information provided in this section has been collated from the CTU Code, existing IPPC

Live animals, snakes, birds etc.

Minimize risks of escape of all live animals and isolate them, if possible, preferably in the container. For rats, mice and other vermin, the services of a Pest Removal company should be considered. For exotic species or domestic animals consult the agency responsible for capture or dealing with such matters e.g., Quarantine Authority, Zoo, or a veterinarian etc. for further action.

Minimize risk of escape of birds found associated with container unless the bird species have been identified as native to the location. Consult the agency responsible for capture or dealing with such matters e.g., Quarantine Authority, Zoo, or a veterinarian etc. for further action.

Minimize risk of escape of all snakes found associated and isolate them, if possible. Even if the species is clearly identified as native to the location they should not be released in, or remotely near, the depot. Consult the agency responsible for capture or dealing with such matters e.g., Quarantine Authority, Zoo, or a veterinarian etc. for further action.

Animal disease risk from livestock and birds should be mitigated by using appropriate disinfectants after cleaning the container to deactivate any remaining disease agents. Consult the local Quarantine authority for recommendations for appropriate disinfectants. The disinfectants used should not contain phenols or strong perfumes as these may give rise to taint problems with future food cargoes.

Treatments and risk management15

Under certain circumstances, treatments may be necessary to neutralize contamination. NPPOs or other authorities may have requirements and guidance in place on the use of treatments.

Recipients of sea containers and their cargoes that have moved internationally are encouraged to seek guidance on appropriate risk management actions and disposal of contamination, including wash water, from their respective National Plant Protection Organization if contamination is detected on or in imported containers, including empty containers.

Third party pest control, cleaning and/or disposal service providers

If third party pest control, cleaning and/or disposal services are employed, suitable "Control of Contractor" procedures should be in place and applied. These would include but are not limited to: planning, choosing a contractor, contractor work on site, keeping a check and reviewing the work.

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