









### PROPER PACKING OF CTUs: KEY TO SAFE SHIPPING

## INTRODUCING CARGO INTEGRITY GROUP & ITS ASPIRATIONS

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Webinar | 20 Apr 2021

#### HISTORY OF CARGO INTEGRITY INITIATIVE

- Cross-industry collaboration success in relation to VGM (amendment to SOLAS Chapter VI, Part A, Regulation 2)
- Recognition that gross mass, while important, is but one part of broader cargo transport unit (CTU) packing process
- Growing governmental concern over transfer of invasive plant and animal species in intermodal supply chain













#### RATIONALE FOR CARGO INTEGRITY INITIATIVE

66%

TT Club analyses show that 66% of incidents related to cargo damage are caused or exacerbated by poor packing practices

#### This includes such things as:

- load distribution
- cargo securing
- o classification
- documentation
- declaration
- o ineffective data transfer



Cost to the transport and logistics industry estimated in excess of USD6 billion annually













#### SOURCES OF KNOWLEDGE ABOUT PACKING

#### **Historic development of guidance**

- Cargo superintendents
- Mariners & shipping lines
- Insurance companies
- Intergovernmental initiatives

#### **Challenges**

- Body of expertise
- Accessibility of guidance
- Trade developments













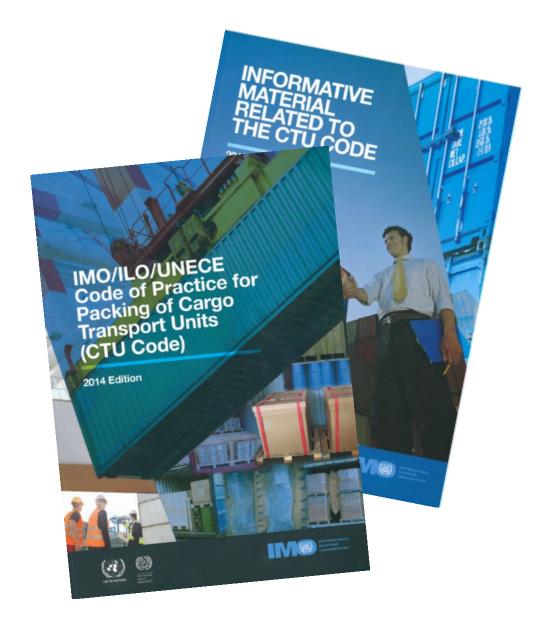
#### WHERE IS THE CTU CODE?

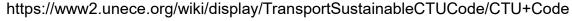
#### **Status & awareness**

- Approved by IMO/ILO/UNECE (MSC.1/Circ.1497 & MSC.1/Circ.1498)
- Code 45pp; Annexes 100pp; Informative Material 175 pp
- Due diligence (MSC.1/Circ.1531)

#### **Cracking the Code**

- Key requirements (Do's & Don'ts) [3]
- Chains of responsibility [4]
- Packing & Securing [9 / A7 / IM5&6]









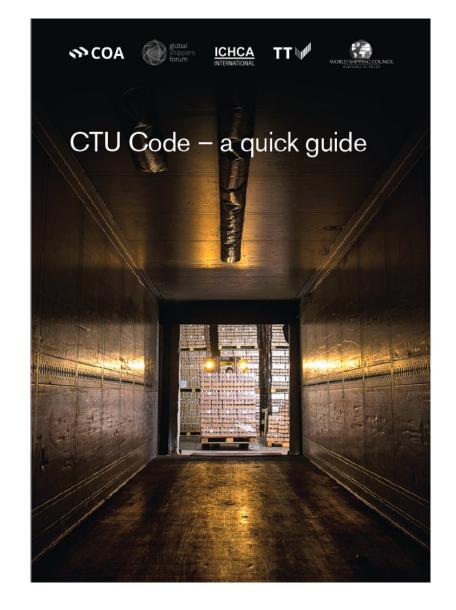






#### **INTRODUCING 'CTU CODE – A QUICK GUIDE'**

- Creating a 'route map' to aid understanding & implementation
- Depicting complex relationships typical to global CTU supply chain
- Simplified process guidance, including:
  - ✓ Planning and preparation
  - ✓ General safety (e.g. enclosed space entry)
  - ✓ Checking the CTU
  - ✓ Dealing with Dangerous Goods
  - ✓ Effective packaging
  - ✓ Principles & practice of packing
  - √ Securing
  - ✓ Completion checks
  - ✓ Receipt & unpacking













#### CONTAINER PACKING CHECKLIST

- Specific for intermodal freight containers
- Clear process checklist for safe packing & avoidance of pest contamination based on CTU Code
- Sequences main check-points from container packer's perspective
- 'Yes/No' answer format. Successful completion allows dispatch of container.
- References to relevant CTU Code source material for supervisors to consider
- Copyrighted material but free to use in unmodified form.











#### Container packing checklist

Contextuist for the safe packing and avoidance or pest contamination or freight container instructions: Complete the checklist for each container to be packed. If ANY of the answers are "NO", stop packing, alert you

YES NO N/A CTU Code reference<sup>2</sup>

	The packing area				
	Is the type of container appropriate for the cargo to be carried?				Ch 7
!	Is the container positioned so that it can be accessed safely?				Ch 8.3 / Annex 5 S2
	Have steps been taken to avoid contamination of the packing area by pests?				Ch 8.2.4 / Annex 6
l	Has a packing plan been prepared showing the arrangements of goods in the container?				Annex 7 S1
i	Are the maximum permitted payload limits of the container sufficient for the intended load?				Annex 4 S2
	Do all timber pallets, dunnage or other wood packing material meet ISPM-15 standards and show the required markings?				Annex 7 S1.14
,	Have staff assigned to pack the container been trained to understand the practices of safe packing and securing and avoidance of pest contamination?				Ch 13 / Annex 10
	Container condition				
	Is the container exterior free from soil or other visible infestation by pests?	П	П	П	Ch 8.2.2.9 / Annex 6
1	Is the container exterior in good condition, and not significantly distorted, cracked or bent?				Ch 8.2.2
0	Does the container have a valid CSC Approval Plate?				Ch 8.2.1 / Annex 4
1	Is the container interior free from signs of damage, signs of water ingress, rust, residues, stains or debris?				Ch 8.2.3 / Annex 6
2	Is the container interior free from soil or other visible infestation by pests?				Ch 8.2.4 / Annex 6
	Packing the container				
3	Is the cargo to be packed free from soil or other visible infestation by pests?				Annex 6
4	Has the heavier cargo been packed at the bottom of the container with any lighter weight cargo on top?				Annex 7 S3.2.3
5	Is the cargo distributed evenly across the floor of the container to spread the load?				Annex 7 S3.1
6	Is the centre of gravity approximately in the centre of the container?				Annex 7 S3.1.4
7	Has the cargo been packed in approximately even layers?				Annex 7 S3.2
8	Have packages with package orientation labels been showed the correct way up?				Annex 7 App 1 S3
9	Has locking, blocking or lashing been used to prevent the cargo from				Annex 7 S2











#### **ACCESSIBILITY TO QUICK GUIDE & CHECKLIST**

- Freely available on partner websites, such as <a href="https://www.ttclub.com/loss-prevention/cargo-integrity/">https://www.ttclub.com/loss-prevention/cargo-integrity/</a>
- Aspiration to translate to all 'official' UN languages
  - ✓ Chinese (Nov 2020)
  - ✓ Spanish (Mar 2021)
  - ✓ Arabic (May 2021)
  - ✓ Russian (Jun 2021)
  - ✓ French (TBA)
- Please disseminate widely!













#### CARGOES OF CONCERN

# Seeking alerts & guidance concerning risks arising from specific commodities

CATEGORY A reactive hazard that may lead to fire

CATEGORY B risks during clean-up &/or health risks

CATEGORY C liable to cause damage to containers &/or other cargo

Aim to enhance awareness globally of sound guidance on good practice















#### **INVASIVE PESTS**





soil



beetles, moths, wasps, and bees; snalls, slugs, ants, and spiders



mold and fungi



Insect and bird droppings or waste



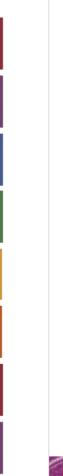
egg masses

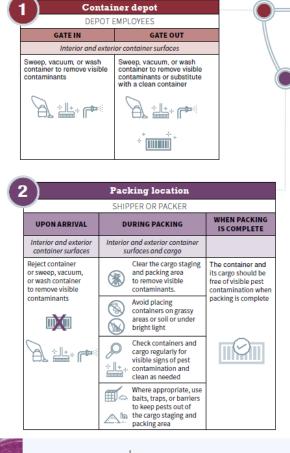


animals, animal parts, blood, excreta, and reproductive components or parts thereof

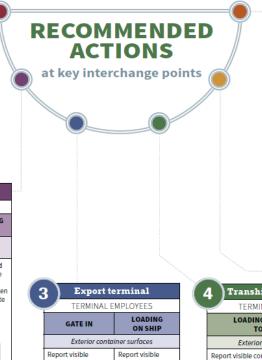


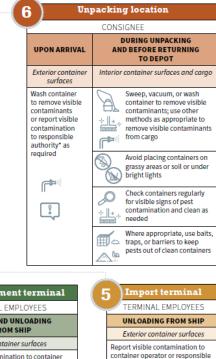
other contamination that shows visible signs of harboring pests











	Export to	erminal	4 Transhipment term
TERMINAL EMPLOYEES			TERMINAL EMPLOYEES
	GATE IN	LOADING ON SHIP	LOADING AND UNLOADING TO/FROM SHIP
	Exterior conto	iner surfaces	Exterior container surfaces
	Report visible contamination to container operator or reject per local protocol	Report visible contamination to container operator	Report visible contamination to controperator or responsible authority* as required

TERMINAL EMPLOYEES					
UNLOADING FROM SHIP					
Exterior container surfaces					
Report visible contamination to container operator or responsible authority* as required					
Q					



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\*Local office of the country's National Plant Protection Organization or Animal Quarantine Organization

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http://www.fao.org/documents/card/en/c/ca7963en/

#### **COLLABORATING FOR CULTURAL "STEP-CHANGE"**

#### Working towards industry wide change

- Call to action
  - Recognition of the scale of the challenge
  - Galvanising "fragmented" stakeholders
  - Reconciling diverse interests
  - Legal & operational innovation

#### Cargo Integrity [#Fit4Freight] initiative

- Promoting awareness & adoption of the CTU Code
- Seeking changes in regulatory requirements
- Monitoring of CTU packing performance
- Working with other industry & governmental stakeholders













# Thank you Any questions?

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