

Chandra D Gioiello IHSC, LLC







Agenda

- The What and Why of the Differences
- Differences in between overlapping categories

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WHY THIS TALK?

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• WHAT'S THE DIFFERENCE?

What is the purpose of a regulation?

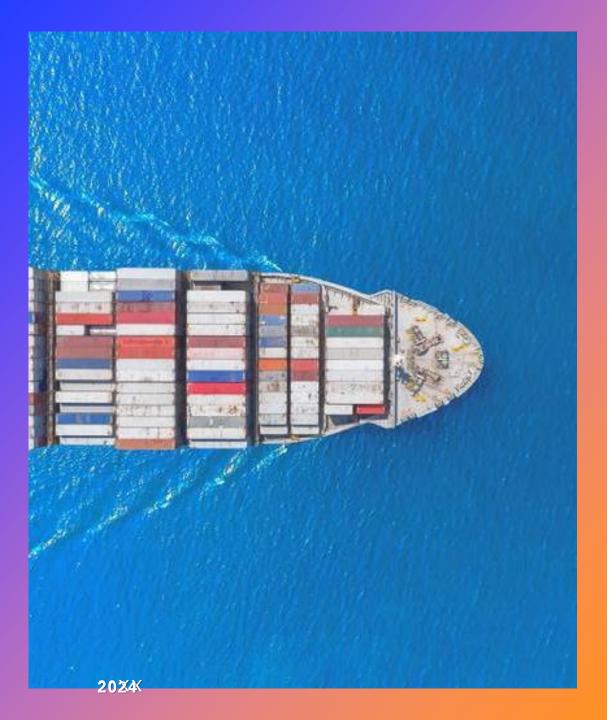
Hazard Communication

- Protects workers in the workplace
- Assumption of lack of control of a product once it leaves the place of manufacture
- Looking at prolonged or repeated exposure
- Intentional worker/user exposure

Transport

- Covers just the point of travel from point A to point B
- Assumes no prolonged or intentional exposure
- Special concerns of the mode pressure differentials in air
- Risk is a factor

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You may see different variations depending on the mode of transport

Definitions

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Pictogram: GHS hazard symbol – white background, red border, black symbol

Label: Transport symbol in various color combinations

Hazard Class: Used by both GHS and transport to indicate a type of hazard

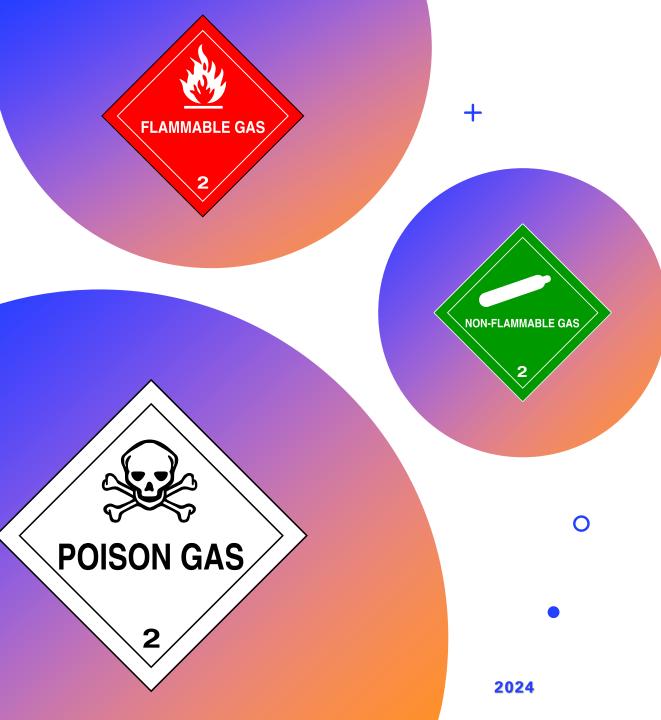
Hazard Category: Used by the GHS to identify a level of hazard

Packing Group: Used by transport to indicate a level of hazard

Division: A subgrouping for certain hazard classes in transport

• A BREAKDOWN BY TRANSPORT CLASS

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Class 2 -Gases

- Flammable gases
- Gases under pressure
- Aerosols
- Chemicals Under Pressure

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FLAMMABLE LIQUID

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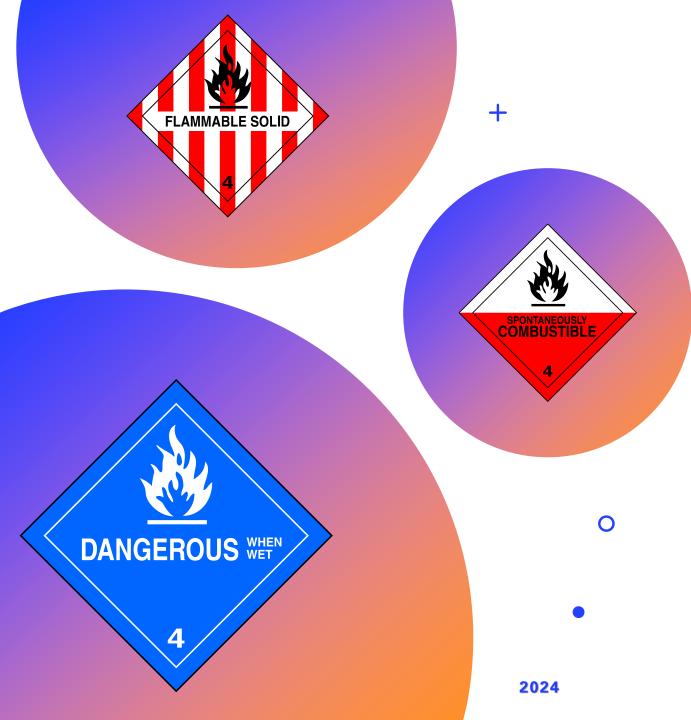
CLASS 3

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- Same basic criteria flash point/boiling point
- Sustained combustion
- Greater than 90% water
- More exemptions for transport
 - Alcohols/alcoholic beverage/ethanol exemption
 - Combustible liquids

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Class 4

 Divisions match to different GHS Hazard Classes

- Very well aligned
- Self-reactives (4.1) is not allowed for transport but is allowed for the GHS





Class 5

- Align perfectly except
- Self-classification for 5.2 (organic peroxides) for the GHS is allowed but not for transport
- Oxidizing gases are covered in Class
 2 for transport but are a separate
 hazard class in the GHS



Class 6

- 6.2 Biological hazards aren't covered by the GHS
- Dermal testing is allowed in rats in the GHS but not transport (yet)
- 4hour GHS inhalation testing versus 1hour transport testing
- Inhalation for vapors for transport is risk based and very different

CLASS 8



Eye Damage drives a Corrosive Pictogram

pH for GHS but not transport Corrosive to Metals

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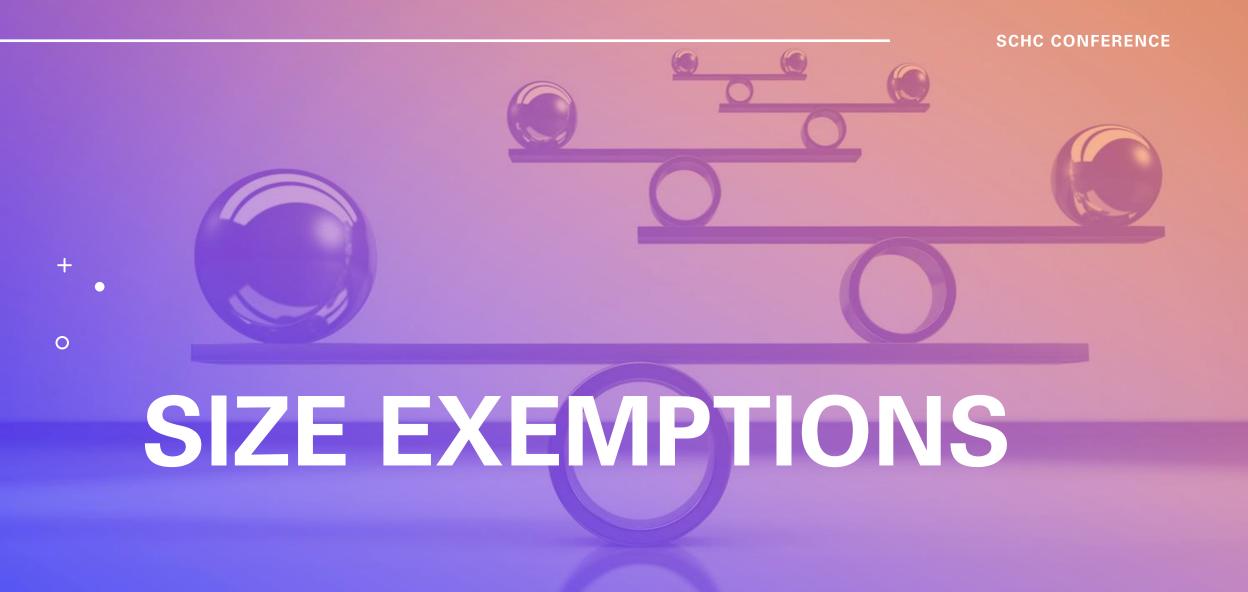
CLASS 9



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- Elevated Temperature Materials
- Genetically Modified Organisms (for certain modes)
- Magnetized Materials
- Certain Articles



- Exemptions
 - Combustible liquids
 - Environment
- Variations (Still dangerous goods)
 - Limited Quantities
 - Excepted quantities

Other Misalignments

- Transport Regulated Materials
 - Lithium Batteries
 - Aviation Regulated Materials
 - Proposed Deviations: Plastic Pellets

Summary

There are good reasons why there is a difference between transport and GHS classifications. Many times they are both correct, but sometimes the one side is wrong. The only way to be sure is to be aware!



THANK YOU

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Keep an eye out for our SCHC transport course!



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