

Chandra D Gioiello IHSC, LLC







# Agenda

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

# SCHC CONFERENCE

# WHY THIS TALK?

+

0

# • WHAT'S THE DIFFERENCE?

# What is the purpose of a regulation?

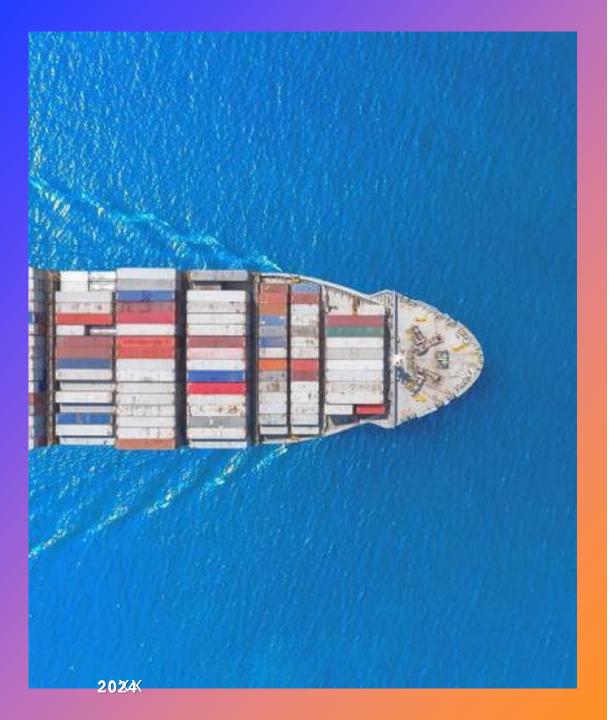
#### **Hazard Communication**

- 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

+



You may see different variations depending on the mode of transport

#### Definitions

+

0

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

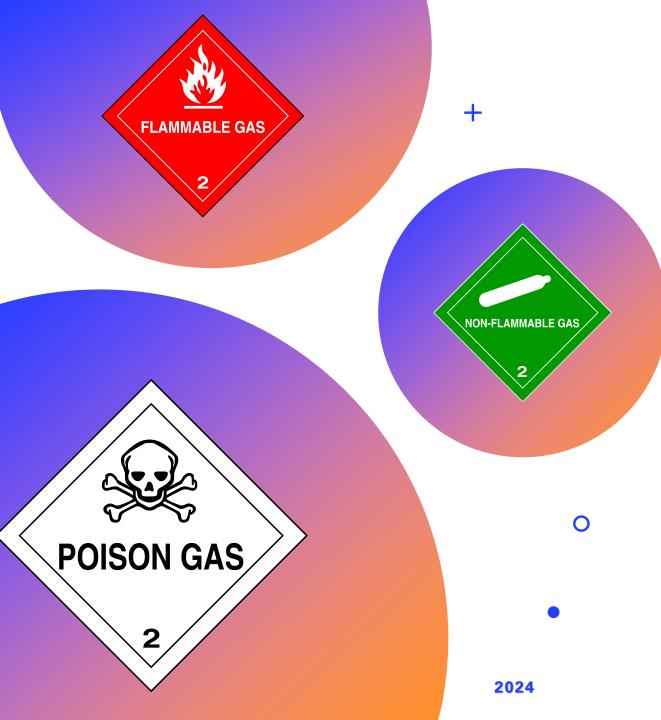
Hazard Category: Used by the GHS to identify a level of hazard

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

8



#### Class 2 -Gases

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

SCHC CONFERENCE

10

+

0

FLAMMABLE LIQUID

3

# CLASS 3

SCHC CONFERENCE

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

+





#### 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

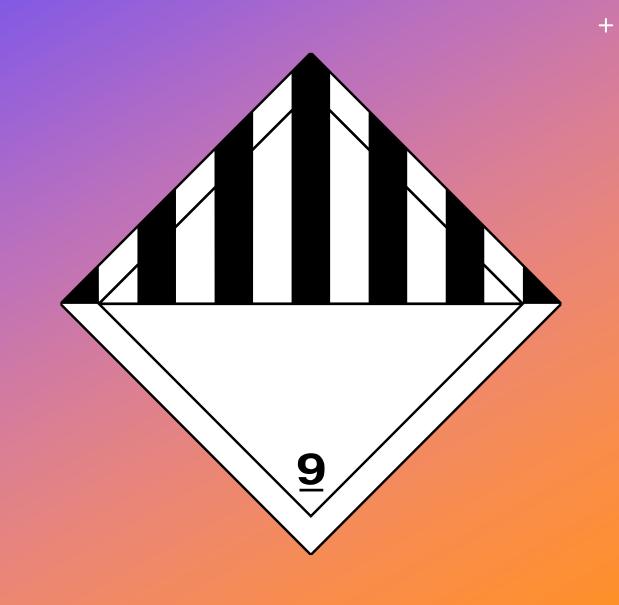


Eye Damage drives a Corrosive Pictogram

pH for GHS but not transport Corrosive to Metals

+

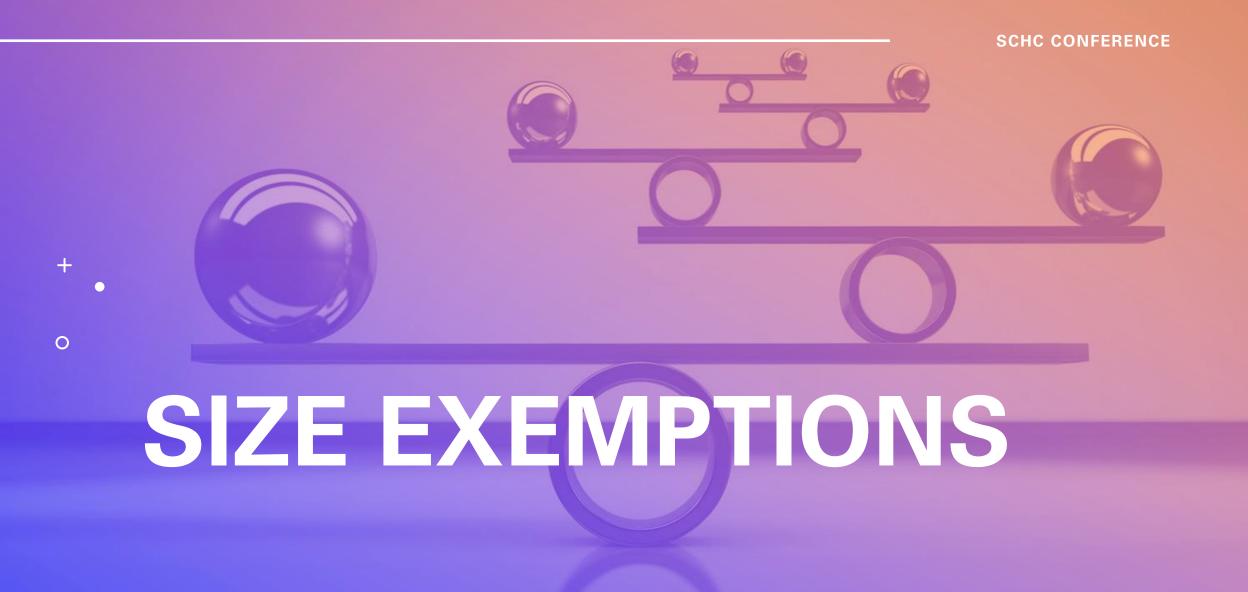
# CLASS 9



**SCHC CONFERENCE** 

+ 0

- 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

Chandra D Gioiello, MS, CIH, SDSRP IHSC, LLC

c.Gioiello@ih-sc.com

Keep an eye out for our SCHC transport course!



+