



# Global GHS Training Course

## No.1 - Series introduction and Global GHS



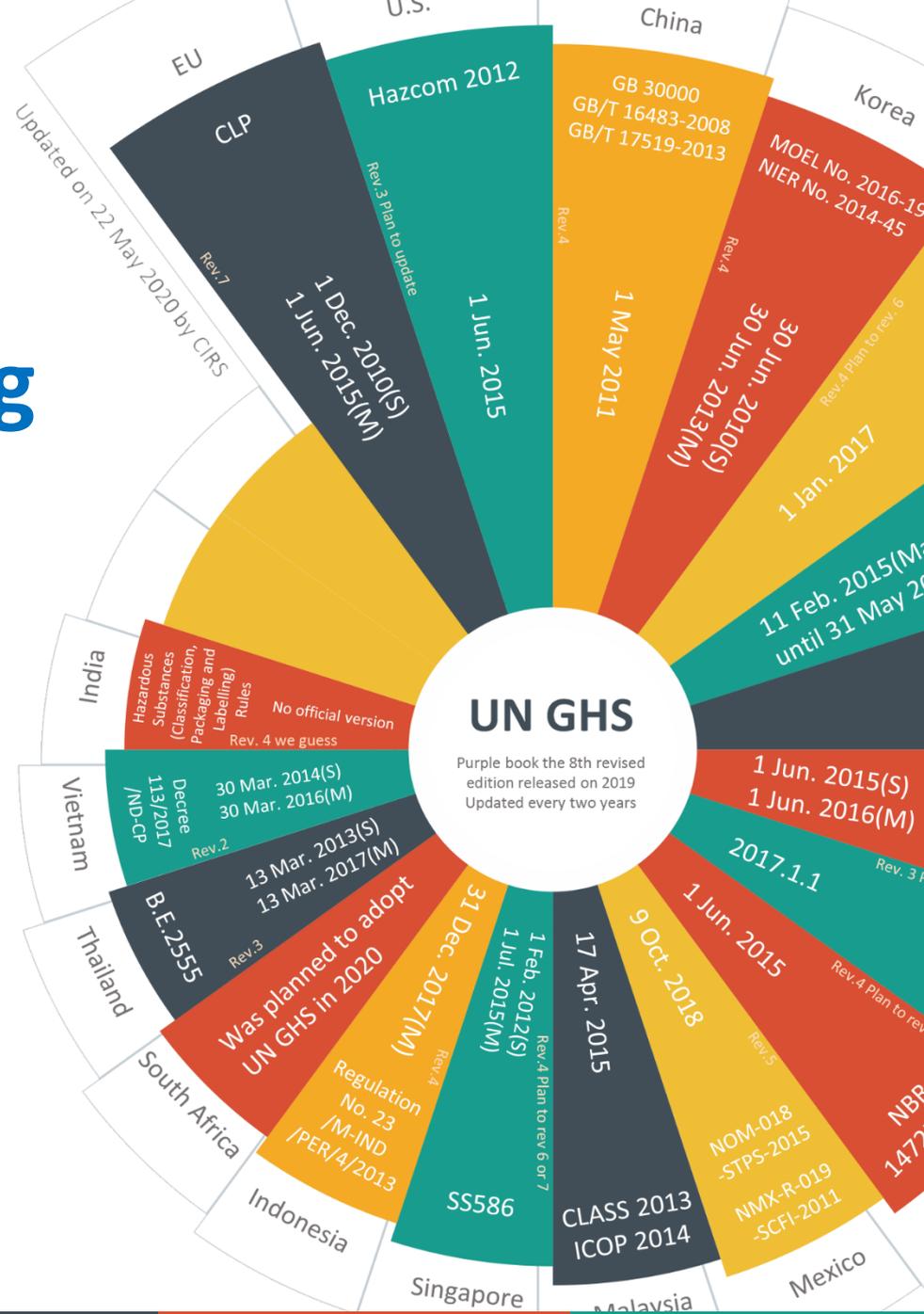
Mr. Dean Winder

Ms. Cloris Pan

Address: Regus Harcourt Centre, D02 HW77, Dublin, Ireland

Tel: 00 353 (1) 477 3709

Web: [www.cirs-reach.com](http://www.cirs-reach.com)



# Contents

-  **1. Housekeeping**
-  **2. Company Introduction**
-  **3. Series Introduction**
-  **4. Making the most of the Series**
-  **5. Welcome Ms. Cloris Pan**





- CIRS is an individual consulting firm founded in 2007 and headquartered in China;
- Has 350+ employees and annual revenue approximately 50 M USD;
- Has branch offices in Dublin(Ireland), Arlington(US), Seoul (Korea) , Nanjing(China), Beijing(China), Hangzhou(China);
- CIRS provides regulatory compliance consulting, testing and training services.
- CIRS shares more than 70% Chinese consulting markets;
- Has 4000+ Clients including 300+ oversea companies

#### **CIRS China (HQ)**

Add: 11/F., Bldg 1, Dongguan Hi-Tech Park, 288 Qiuyi Rd, Binjiang District, Hangzhou, China

#### **CIRS Europe**

Add: CIRS, Regus Harcourt Centre D02 HW77, Dublin, Ireland

#### **CIRS US**

Add: #200-092, 3100 Clarendon Blvd., Arlington, VA 22201

#### **CIRS Korea**

Add: B-2310, 583, Yangcheon-ro, Gangseo-gu, Seoul, Republic of Korea

# Series Introduction



Why are we hosting this free series?



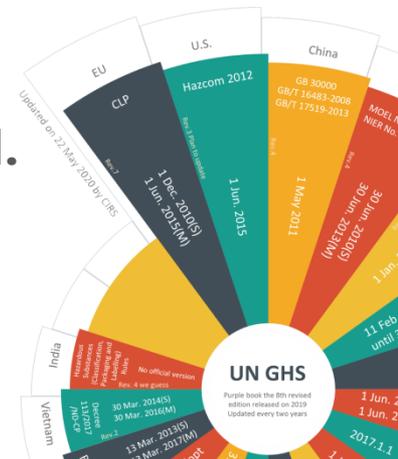
What to expect in the coming weeks?

- Two main types of Webinars
  - Country Specific
  - Topic Specific



Guest Presenters

- Dr. Hou Rong from Japan Environmental Management Association for Industry (JEMAI) for Japan GHS and chemical regulations.
- Alexey Mantsev and Inessa Kiristaeva REGARTIS s.r.o. & Ecovostok for EAEU GHS and EAEU REACH.



# Series Introduction Timeline



Time (GMT+1): 15:00pm, 1 July 2020

## 1. Series introduction and Global GHS

Dean Winder and Cloris Pan

- Introduction of this series
- Countries/regions adopted UN GHS
- Local specific GHS Regulations

>>> [Register Here](#)

Time (GMT+1): 16:00pm, 8 July 2020

## 2. EAEU GHS features and EAEU-REACH

Bryan Zhou, Alexey Mantsev and Inessa Kiristaeva

- Russian Inventory notification and Technical Regulation
- Russian SDS and Labelling
- Q&A

>>> [Register Here](#)

Time (GMT+1): 15:00pm, 15 July 2020

## 3. Korea GHS features and local regulations

Julie Harrington and Li Xiang

- MOEL2016-19 and related provisions
- Requirements and features
- Chemical Regulations in briefing
- FAQ

>>> [Register Here](#)

# Series Introduction Timeline



Time (GMT+1): 15:00pm, 22 July 2020

## 4. China GHS features and local regulations

Dean Winder and Bryan Zhou

- GB 30000 series and related provisions
- Requirements and features
- Chemical Regulations in briefing
- FAQ

>>> [Register Here](#)

Time (GMT+1): 15:00pm, 29 July 2020

## 5. Japan GHS features and local regulations

Ethan Zheng and Dr. Hou Rong

- Japan GHS introduction
- Japan chemical regulation and chemical inventory introduction

>>> [Register Here](#)

Time (GMT+1): 15:00pm, 5 August 2020

## 6. CLP and SCIP Database

Dean Winder

- EU REACH and CLP
- SVHC notification
- SCIP Database and SVHC Testing
- Article concerns

>>> [Register Here](#)

# Series Introduction Timeline



Time (GMT+1): 15:00pm, 12 August 2020

## 7. Does article need to comply with GHS

Cloris Pan

- Substance, Mixtures and Articles
- SDS for Articles or not
- Case studies
- FAQ

>>> [Register Here](#)

Time (GMT+1): 15:00pm, 19 August 2020

## 8. How to keep your CBI in secret during hazard communication

Li Xiang

- The requirements on information disclosure
- Comparison among different Countries/Regions
- Advanced strategies
- FAQ

>>> [Register Here](#)

Time (GMT+1): 15:00pm, 26 August 2020

## 9. The emergency contact number required in Global GHS SDS

Bryan Zhou

- Requirements and differences of target Countries/Regions
- PCN in EU
- NRCC in China
- Other countries

>>> [Register Here](#)

# Series Introduction Timeline



Time (GMT+1): 15:00pm, 2 September 2020

## 10. What makes the classification difference

Christopher Ketchum

- Building block and additional classifications
- The global classification lists
- Case studies
- FAQ

>>> [Register Here](#)

Time (GMT+1): 15:00pm, 9 September 2020

## 11. GHS labelling for small and awkward packages

Ethan Zheng

- Requirements and differences
- Definitions
- Omission rules

>>> [Register Here](#)

Time (GMT+1): 15:00pm, 16 September 2020

## 12. Global GHS advanced and series closure

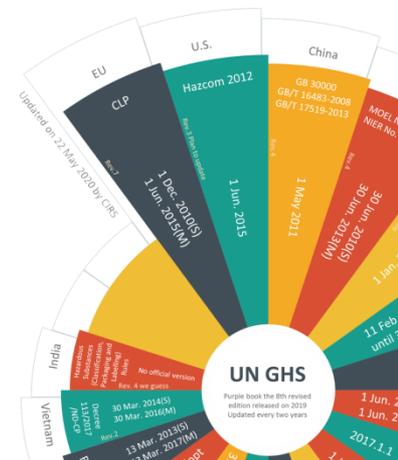
Dean Winder and Cloris Pan

- One SDS for all Countries/Regions
- Global GHS expectation
- Find data for classifications/SDS
- Series closure and further information

>>> [Register Here](#)

# Making the most of the Series

-  Send us your questions
-  Request the Presentations
-  Keep up to date with our Advanced Articles
-  Consult our FAQ Documents



# Ms. Cloris Pan



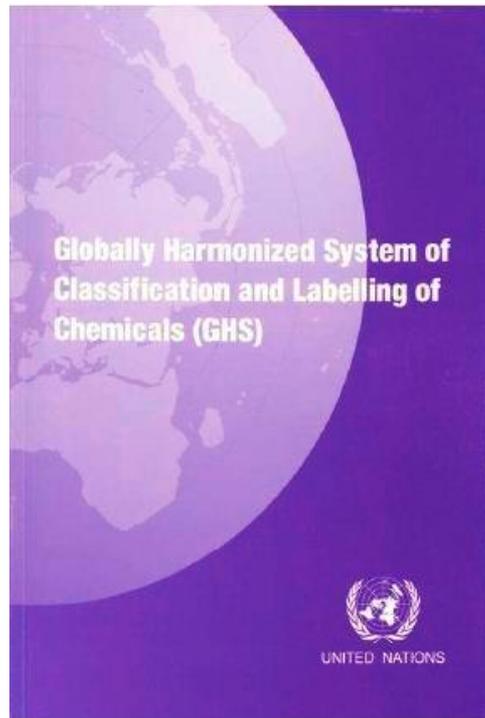
-  **MSc obtained from the University of Sheffield**
-  **Manager of our GHS Division**
-  **Over 7 years Working Experience in Global GHS implementation**
-  **Overseen the completion of 10,000 SDS and Labels in various languages last year**

# Contents

-  1. UN GHS purple book
-  2. GHS elements
-  3. The implementation status
-  4. Differences among various regions

## UN GHS – purple book

### Globally Harmonized System of Classification and Labelling of Chemicals



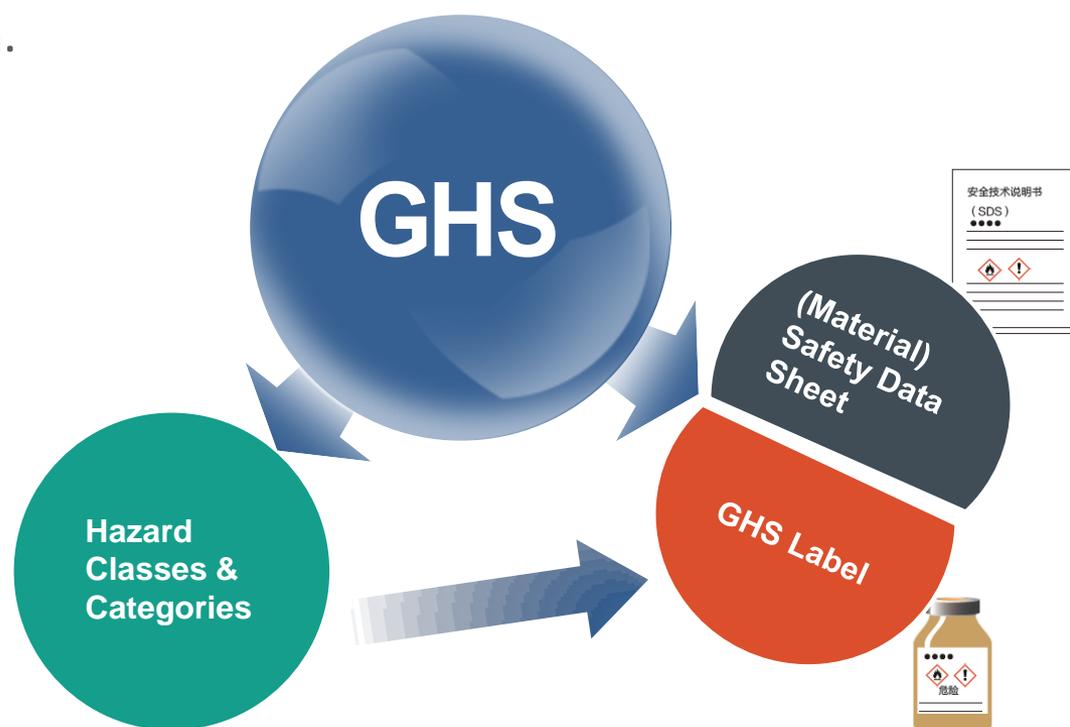
**8<sup>th</sup> Revised Edition**

[http://www.unece.org/trans/danger/publi/ghs/ghs\\_rev08/08files\\_e.html](http://www.unece.org/trans/danger/publi/ghs/ghs_rev08/08files_e.html)

# Scope

The GHS applies to pure substances and their dilute solutions and to mixtures.

“Articles” as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the system.



# Classifications 8 rev. purple book



**17**  
**Physical**  
**hazards**

**10 Health**  
**hazards**

**2**  
**Environmental**  
**hazards**

# SDS or MSDS

Various abbreviations: SDS, MSDS, FISPQ, SDB, FDS ...

**1. Identification**

**9. Physical and chemical properties**

**2. Hazard identification**

**10. Stability and reactivity**

**3. Composition/information on ingredients**

**11. Toxicological information**

**4. First-aid measures**

**12. Ecological information**

**5. Fire-fighting measures**

**13. Disposal consideration**

**6. Accidental release measures**

**14. Transport information**

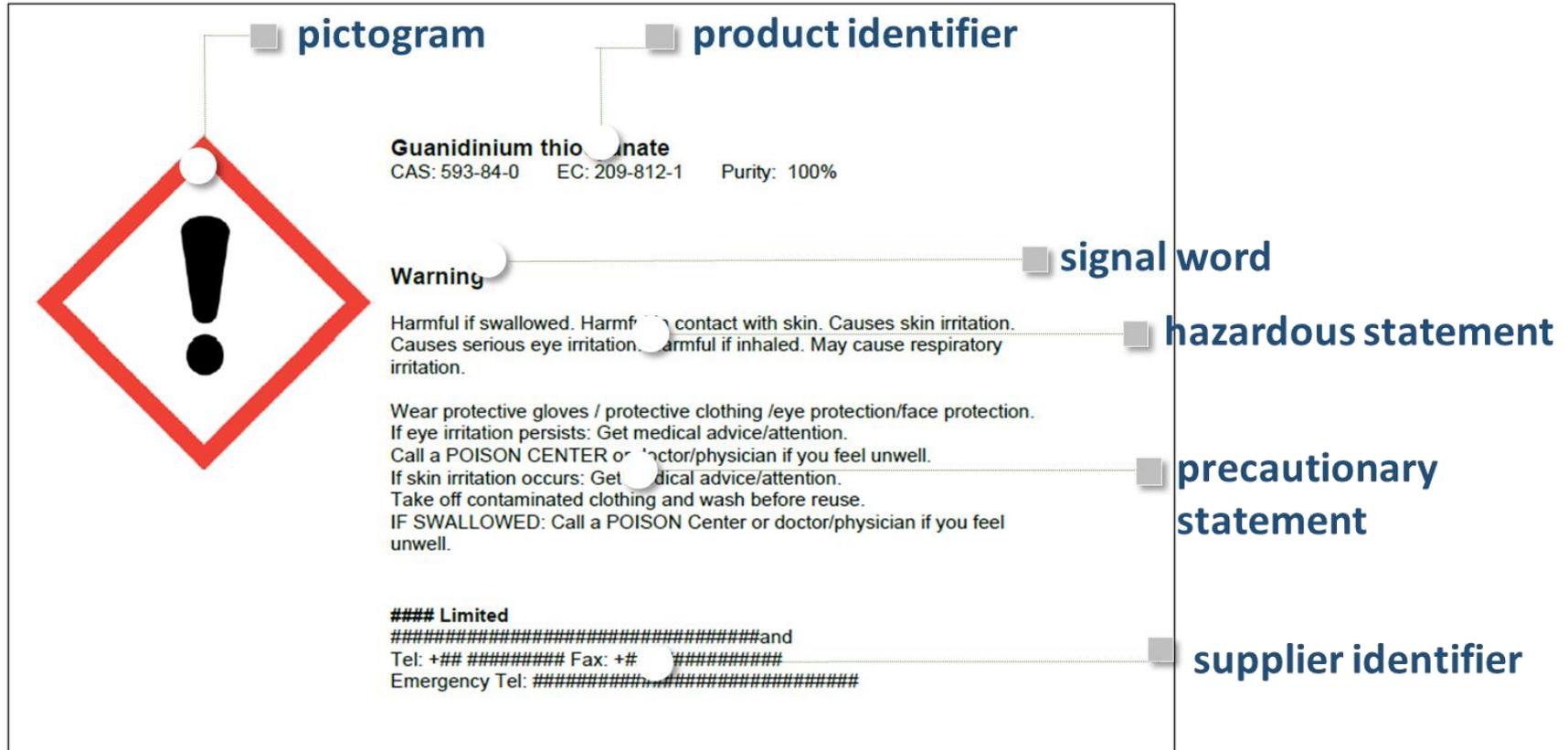
**7. Handling and storage**

**15. Regulatory information**

**8. Exposure controls/personal protection**

**16. Other information**

# Labelling



**pictogram**



**product identifier**

**Guanidinium thiocyanate**  
CAS: 593-84-0 EC: 209-812-1 Purity: 100%

**Warning**

**signal word**

**hazardous statement**

Harmful if swallowed. Harmful contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.

**precautionary statement**

Wear protective gloves / protective clothing /eye protection/face protection.  
If eye irritation persists: Get medical advice/attention.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
IF SWALLOWED: Call a POISON Center or doctor/physician if you feel unwell.

**supplier identifier**

### Limited  
#####and  
Tel: +## ##### Fax: +# #####  
Emergency Tel: #####

# Pictograms



Oxidizers



Flammables, Self Reactives,  
Pyrophorics, Self-Heating,  
Emits Flammable Gas,  
Organic Peroxides



Explosives, Self  
Reactives, Organic  
Peroxides



Acutely Toxic  
(severe)



Burns Skin, Damages  
Eyes, Corrosive to Metals



Gases Under Pressure



Carcinogen, Respiratory  
Sensitizer, Reproductive  
Toxicity, Target Organ  
Toxicity, Mutagenicity  
Aspiration Toxicity

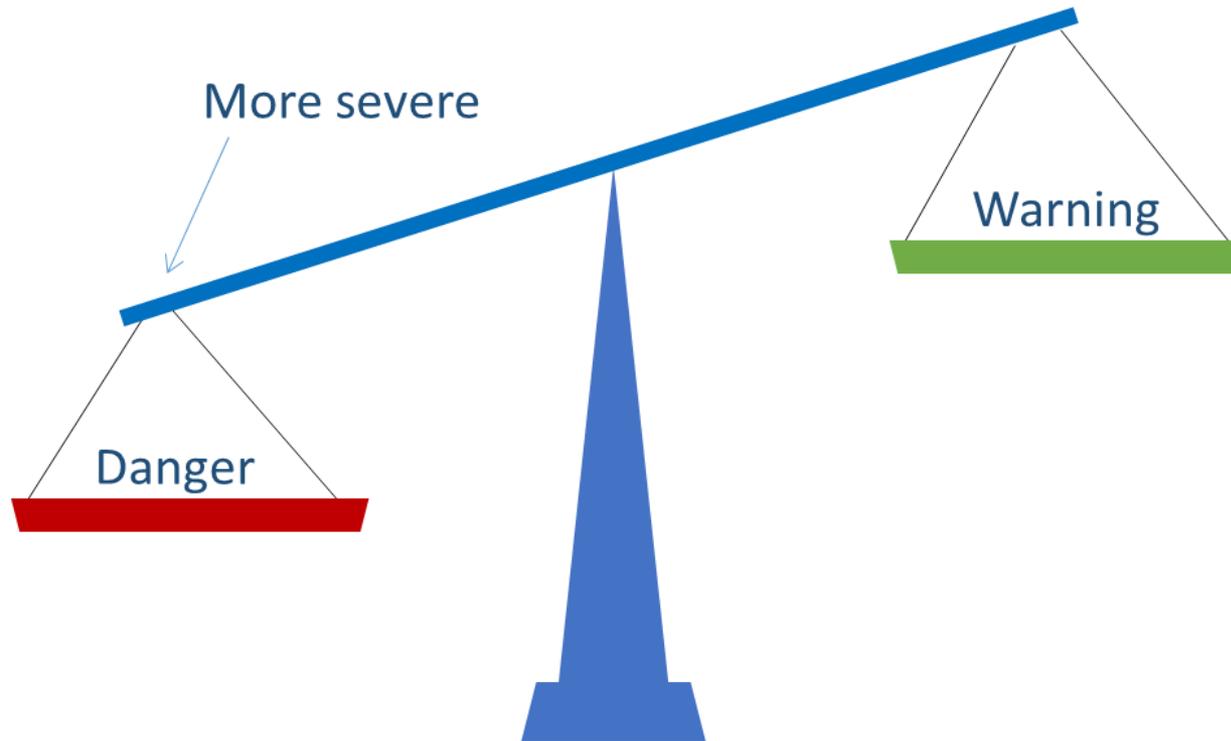


Toxic to aquatic  
environment



Acutely toxic(harmful),  
Irritant to skin, eyes or  
respiratory tract, Skin  
sensitizer, Hazardous to  
the Ozone layer.

# Signal words



# H/P statements

**Hazard statement** means a statement assigned to a hazard class and category that describes the nature of the hazards of a hazardous product, including, where appropriate, the degree of hazard;

**Precautionary statement** means a phrase (and/or pictogram) that describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposure to a hazardous product, or improper storage or handling of a hazardous product;

# Examples of H/P statements

H Code	H statements
H300	Fatal if swallowed
H314	Causes severe skin burns and eye damage
H410	Very toxic to aquatic life with long lasting effects

P Code	P statements
P222	Do not allow contact with air.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P405	Store locked up.

# Implementation of GHS in different regions (examples)

## Asia Pacific

- China, Japan, Korea, Singapore, Malaysia, Indonesia, Thailand, Vietnam, Taiwan, Australia, New Zealand, Philippines

## Europe

- Member states of the European Union, Russia, Switzerland, Turkey

## North America

- The United States, Canada, Mexico

## Others

- Abu Dhabi, Mauritius, South Africa, Zambia, Chile, Ecuador, Uruguay, Brazil, Argentina, Israel, etc.

# Implementation of GHS in different regions (examples)

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EU	Regulation EC 1272/2008 (CLP)
USA	HCS 2012 / HazCom 2012
China	GB 30000, GB/T 16483-2008, GB/T 17519-2013
Japan	JIS Z 7253, JIS Z 7254
Korea	MOEL 2016-19
Thailand	B.E.2555
Malaysia	CLASS 2013, ICOP 2014
Taiwan	CNS 15030
Brazil	NBR 14725
Singapore	SS 586
.....	

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## Implementation of GHS in different regions (examples)

### Rev. 4<sup>th</sup>

- China(GB30000.2-29), South Korea(MOEL 2016-19), Indonesia(No. 23/M-IND/PER/4/2013)

### Rev. 5<sup>th</sup>

- Mexico(NOM-018-STPS-2015)

### Rev. 6<sup>th</sup>

- Japan(JIS Z7252&7253), Brazil(NBR 14725-2)

### Rev. 7<sup>th</sup>

- EU(6<sup>th</sup> and 7<sup>th</sup>, 12ATP), Australia(2021), China(GB30000.1), New Zealand(plan), US(plan)

# Updates

- ◆ Purple book – every 2 years
- ◆ Recent updates - Local regulations, standards, guidance :
  - EU
    - CLP ATP 12<sup>th</sup>, REACH Annex II
  - South Korea
    - OSHA updates include SDS submission requirements
  - Japan
    - JIS Z7253:2019 & JIS Z7252:2019
  - Australia
    - implement the 7th from Jan 1 2021

# Building blocks

Hazard classes are building blocks

Within a hazard class, each hazard category can be seen as a building block

For a given hazard class, competent authorities have the possibility not to apply all categories.

Where a competent authority adopts a hazard category, it should also adopt all the categories for higher hazard levels in that class.

## Different building blocks (examples)

Hazard Classes	EU CLP	China GB	Korea MoEL	Japan JIS
Flammable liquids	Category 1-3	Category 1-4	Category 1-3	Category 1-4
Acute toxicity	Category 1-4	Category 1-5	Category 1-4	Category 1-4
Skin irritation / corrosion	Category 1-2	Category 1-3	Category 1-2	Category 1-2
Aspiration toxicity	Category 1	Category 1-2	Category 1-2	Category 1
Hazardous to aquatic environment (acute)	Category 1	Category 1-3	Category 1	Category 1-3

# Classification lists (examples)

## Mandatory

- CLP Annex VI
- China: catalogue of hazard chemicals 2015
- South Korea: classification list for toxic chemical substances
- Malaysia: ICOP 2014 Part 1: classification list

## Advisory

- Taiwan: 2 lists, 3000+6000 substances
- Japan: advisory classifications from Japanese Ministries
- Thailand: Department of Industrial Works

# Additional requirements/details (examples)

## Registration number

- EU, South Korea K-REACH

## Emergency contact number

- EU, China (domestic 24h), Malaysia (domestic or overseas 24h)

## Local supplier information

- South Korea, Singapore, etc

## Regulatory information

- Japan Fire Law, Poisonous and Deleterious, Substances Control Law, etc

# Q&A Session

Following our event, please always click

<http://www.cirs-reach.com/news-and-articles/2020-CIRS-Training-Courses-Global-GHS.html>

to find further updates

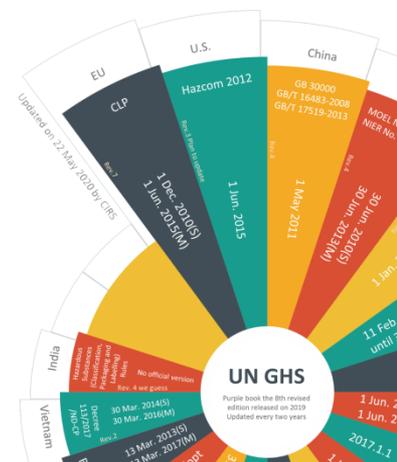
Contact Email: [service@cirs-reach.com](mailto:service@cirs-reach.com)

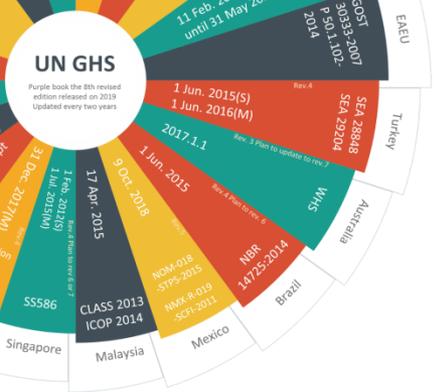
For our Consultation

**Next Webinar:** EAEU GHF Features and EAEU REACH

**Time & Date:** (GMT+1) 16:00, July 8<sup>th</sup>

Registration still Available





# Thank you for your attention

