

Responsible Packaging Management Association of Southern Africa



What is the GHS, and What does it mean to the Food Industry? SAFFOST 2015



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What is the GHS & what does it mean for Industry?



Presentation includes –

- 🌐 What the GHS is, and it's purpose?
- 🌐 Introduction to the RPMASA
- 🌐 GHS – Best Practice or Legal requirement?
- 🌐 Global Implementation of the GHS?
- 🌐 Difference from Transport Classification + impact on SDS, labelling and placards?
- 🌐 South African Regulatory framework
- 🌐 How to get started
- 🌐 Training and Training aids to raise awareness and assist compliance



What is the GHS ?



The Globally Harmonised System of Classification and Labelling of Chemicals

🌍 A new **GLOBAL** system *to communicate* chemical hazards of products, to protect **PEOPLE workers AND consumers**

in a **consistent way everywhere in the world**

🌍 Through an agreed common approach to

- ✓ Classification
- ✓ SDS Safety Data Sheets
- ✓ Product packaging
- ✓ Symbols & labeling



Who & what is RPMASA ?



Responsible Packaging Management Association of Southern Africa is

- ✓ a registered NPO
- ✓ the leading Industry Association providing a focal point for ALL in Supply Chain of Industrial & Retail chemicals

RPMASA has a seat on the UN Committee of Experts for TDG & the GHS thus uniquely placed to assist Members with -

- ✓ Regulatory & Technical Information
- ✓ A voice to Government,
- ✓ Information and updates on Regulations & Standards
- ✓ Training - GHS, Packaging, handling, Labelling & Transport Regulations + Environment & Waste
- ✓ Audit for Members, to assist legal compliance
- ✓ Excellent networking opportunities

See www.rpmasa.org.za



GHS adds Health & Environment hazards



The first 6 symbols are taken from the UN transport symbols

| GHS Pictograms and Hazard Classes | | |
|---|---|--|
| | | |
| <ul style="list-style-type: none"> Oxidizers | <ul style="list-style-type: none"> Flammables Self-reactives Pyrophorics Self-heating Emits flammable gas Organic peroxides | <ul style="list-style-type: none"> Explosives (1.1-1.4) Self-reactives Organic peroxides |
| | | |
| <ul style="list-style-type: none"> Acute toxicity (severe) | <ul style="list-style-type: none"> Corrosive to metals Skin corrosion Serious eye damage | <ul style="list-style-type: none"> Gases under pressure |
| | | |
| <ul style="list-style-type: none"> Carcinogenicity Respiratory sensitization Toxic to reproduction Specific target organ toxicity (repeated) Germ cell mutagenicity Aspiration hazard | <ul style="list-style-type: none"> Aquatic toxicity (acute) Aquatic toxicity (chronic) | <ul style="list-style-type: none"> Acute toxicity (harmful) Skin/eye irritation Skin sensitization Specific target organ toxicity (single) Hazardous to the ozone layer |

Hazard Diamonds are smaller than Transport ones, as mainly for consumer sizes, but **must** be legible!!

These 3 address health & environment Hazards -

Worker and consumer education is urgent!



Where does the GHS come from?



An outcome of the World Summit for Sustainable Development + Millennium Goals

To improve protection of People in Industry AND the Public to the increase in trade + wider availability and exposure to chemicals & chemical products

It is rapidly becoming a condition for doing Business AND Trade between Countries

If you manufacture you need to provide GHS compliant SDS – Safety Data Sheets - to all in your Supply Chain + ensure GHS compliant labels, AND packaging



International & National Regulations



The UN first published the GHS in 2003 – it adds Health & Environment to the Transport Physical hazards

UN 2 yearly revisions - 2013 18th revision TDG published + 5th revision GHS to come into effect 1 January 2015



June 2015 – 19th revn

6th Revn

Changes arise from new technologies or results of experience from incidents and accidents



GHS – Global Implementation



EU – REACH 1 June 2015

Registration, Evaluation, Authorisation & Restriction of chemicals – for all chemicals / products of over 1 ton manufactured or imported into the EU

CLP – Classification, Labelling & Packaging

Notification of all chemicals and products **used** in the EU regardless of quantity. **SDS – Safety Data Sheets, labelling AND packaging** must be GHS compliant

Australia – 1 Jan 2016 : New Zealand Jan. 2011

Brazil – 1 June 2015

Canada – 1 June 2015

China – 1 June 2015

Japan - 1 Jan 2012

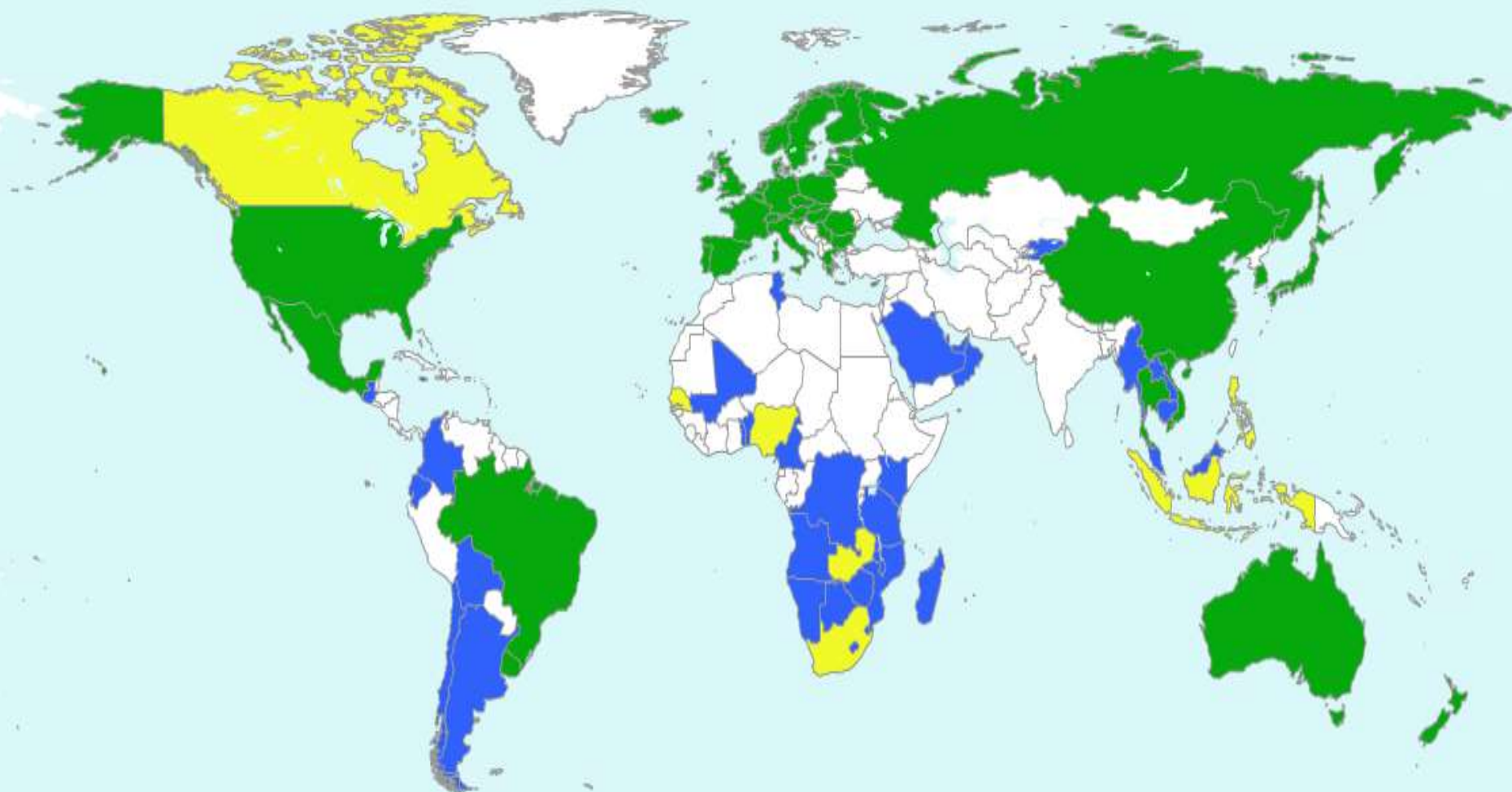
USA OSHA – 1 June 2015



GHS implementation around the world: see



http://www.unece.org/trans/danger/publi/ghs/implementation_e.ntmi



Source: UNECE

In force

preparations

training

Information not available

GHS Uptake Globally & in Africa



- ✓ Globally, most countries are either implementing the GHS or actively developing and / or revising legislation for its implementation.
- ✓ Various African countries such as Nigeria & Kenya are busy with GHS
- ✓ **SADC Policy of 2013 is for All Countries by Jan 2020**
- ✓ Zambia, Mauritius, Madagascar, Tanzania, South Africa, the Seychelles , Madagascar and Tanzania are busy developing legislation
- ✓ Zambia regulations published April 2013, 5 year phase in
- ✓ Many countries have awareness programmes to facilitate bringing into national regulations



Is the GHS Best Practice or Legal?



SO – what is the Intent of the GHS? **To PROTECT People in Industry AND Retail** **Workers AND Consumers**

It was started as voluntary but as taken into legislation has rapidly become a condition for doing Business AND Trade between Countries –

Came into effect in many countries on 1 June 2015!

Demand GHS compliant SDS, NOT MSDS, and GHS compliant Labels from your Suppliers – WHY ?

If you manufacture you need GHS compliant SDS for your Raw Materials in order to classify your products, produce **compliant SDS + correct labels, AND Confirm compliant packaging**

NB Have to declare **ALL** components **above Cut-off Values!**



GHS Implementation – South African Legal framework



Implementation through numerous
Government Departments and legal Instruments -
Labour is lead Agent - OHS Act, Hazardous Chemical
Substances Regulations for SDS & in future labels +

-  Transport - all modes, RTA, IMDG, ICAO
-  Agriculture, Forestry & Fisheries – Regn Products
-  Customs & Border Control
-  Environment – Waste Regulations
-  Health – Registration of Products
-  Mines – Mine Health & Safety Act
-  Trade & Industry – CPA
-  + +



Difference between Transport & GHS?



What are dangerous goods and hazardous chemicals, and What Sectors are affected?

Dangerous goods - chemicals, products **and** articles e.g. Batteries, fireworks, motorised wheelchairs, etc

Hazardous chemicals - chemicals and chemical products that have potential to harm

What Sectors are affected ?















Agriculture, Transport, Industry, Consumers

What Products ALL at some stage in their Life Cycle e.g.

Aerosols, batteries, food, personal & beauty products
paints, solvents, cleaning chemicals, garden, pool &
pesticide products



Examples of Transport "Pictograms"

| | | |
|--|--|--|
|  <ul style="list-style-type: none"> • Flammable Gas • Flammable Aerosol |  <ul style="list-style-type: none"> • Flammable solids • Self-Reactive substances and mixtures |  <ul style="list-style-type: none"> • Pyrophoric solids • Pyrophoric liquids • Self-heating Substances and mixtures |
|  <ul style="list-style-type: none"> • Substances and mixtures, which in contact with water, emit flammable gases |  <ul style="list-style-type: none"> • Oxidizing gases • Oxidizing liquids • Oxidizing solids |  <ul style="list-style-type: none"> • Self reactive substances and mixtures (type B) • Organic peroxides |
|  <ul style="list-style-type: none"> • Explosives (Division 1.4) |  <ul style="list-style-type: none"> • Explosives (Division 1.5) |  <ul style="list-style-type: none"> • Explosives (Division 1.6) |
|  <ul style="list-style-type: none"> • Gases under pressure |  <ul style="list-style-type: none"> • Acute toxicity: Oral • Acute toxicity: Skin • Acute toxicity: Inhalation |  <ul style="list-style-type: none"> • Corrosive to metals • Skin corrosion/irritation |
|  <ul style="list-style-type: none"> • Aquatic toxicity (Acute) • Aquatic toxicity (Chronic) |  <ul style="list-style-type: none"> • Organic Peroxides | |



Minimum size of Transport Diamonds on Packaging is 100 x 100 mm, so as to be Visible from The Road in case of accident

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What is the GHS - Labelling?



GHS - EU examples of labelling

 **GHS IS REALITY GLOBALLY**





Many Consumer labels will have to change
RPMASA can assist & advise



What does the GHS mean to SA Industry & what will change?



A NEW way for Business & Industry –

Labeling & Packaging has to change to GHS

- ✓ This is to inform of health & environmental hazards not just physical + inform on **safe use and disposal**
- ✓ *MSDS become SDS and comply with ISO/SANS 11014*
- ✓ *Labels shall have the new GHS red diamond symbols - **BEWARE of hazard for safe storage, handling & use***
- ✓ *Companies who have not yet started need to !*
- ✓ *Employees will be seeing GHS symbols on raw materials & products in the stores*

Awareness Raising & Training – urgent to start
To avoid being a Barrier to Trade ☺



GHS – a new way for Industry



Good luck on your GHS journey

RPMASA can assist you with GHS Training

GHS Posters for Awareness Raising

Review of current status & gaps to fill

Consulting for compliant SDS,

Packaging and Labels

Compliant Supply Chain Solutions

Contact - info@rpmasa.org.za

032 947 1145 www.rpmasa.org.za

