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

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

The first 6 symbols are taken from the UN transport symbols

GHS Pictograms and Hazard Classes		
• Oxidizers	• Flammables • Self-reactives • Pyrophorics • Self-heating • Emits flammable gas • Organic peroxides	• Explosives (1.1-1.4) • Self-reactives • Organic peroxides
• Acute toxicity (severe)	• Corrosive to metals • Skin corrosion • Serious eye damage	• Gases under pressure
• Carcinogenicity • Respiratory sensitization • Toxic to reproduction • Specific target organ toxicity (repeated) • Germ cell mutagenicity • Aspiration hazard	• Aquatic toxicity (acute) • Aquatic toxicity (chronic)	• Acute toxicity (harmful) • Skin/eye irritation • Skin sensitization • Specific target organ toxicity (single) • Hazardous to the ozone layer

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 came 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

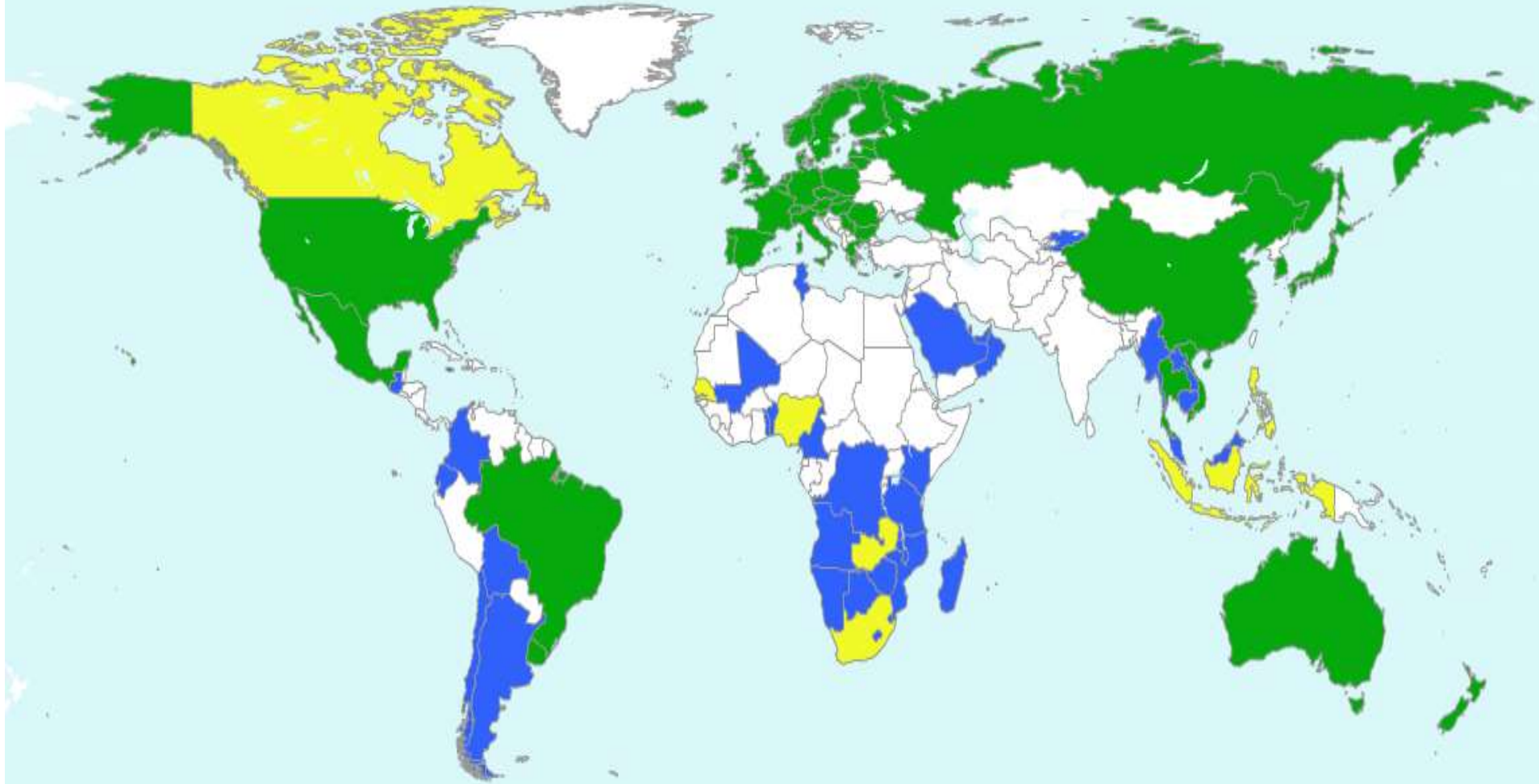
CLP – Classification, Labelling & Packaging

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.html



In force | preparations | training | Information not available

Source: UNECE

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

RPMASA

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

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

Examples of Transport "Pictograms"		
 • Flammable Gas • Flammable Aerosol	 • Flammable solids • Self-Reactive substances and mixtures	 • Pyrophoric solids • Phyrophoric liquids • Self-heating Substances and mixtures
 • Substances and mixtures, which in contact with water, emit flammable gases	 • Oxidizing gases • Oxidizing liquids • Oxidizing solids	 • Self reactive substances and mixtures (type B) • Organic peroxides
 • Explosives (Division 1.4)	 • Explosives (Division 1.5)	 • Explosives (Division 1.6)
 • Gases under pressure	 • Acute toxicity: Oral • Acute toxicity: Skin • Acute toxicity: Inhalation	 • Corrosive to metals • Skin corrosion/irritation
 • Aquatic toxicity (Acute) • Aquatic toxicity (Chronic)	 • Organic Peroxides	

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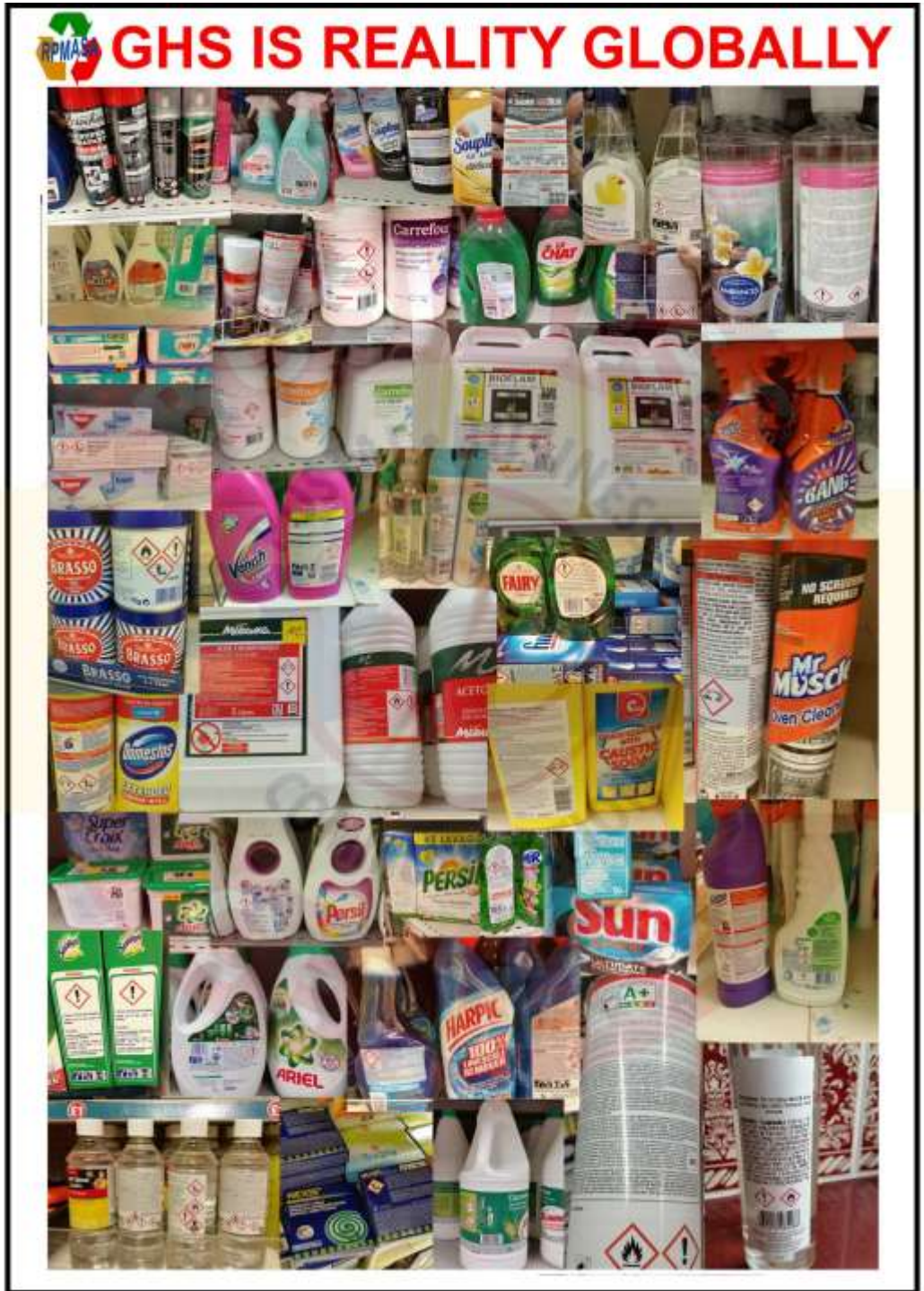
What is the GHS - Labelling?

GHS - EU examples of labelling



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

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