

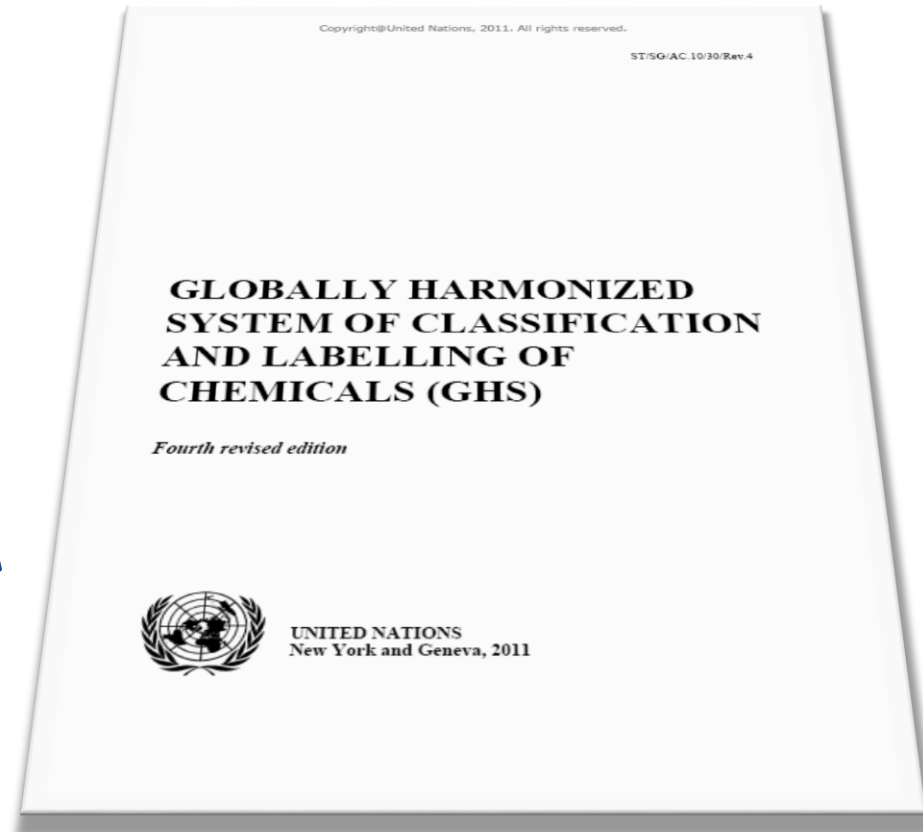
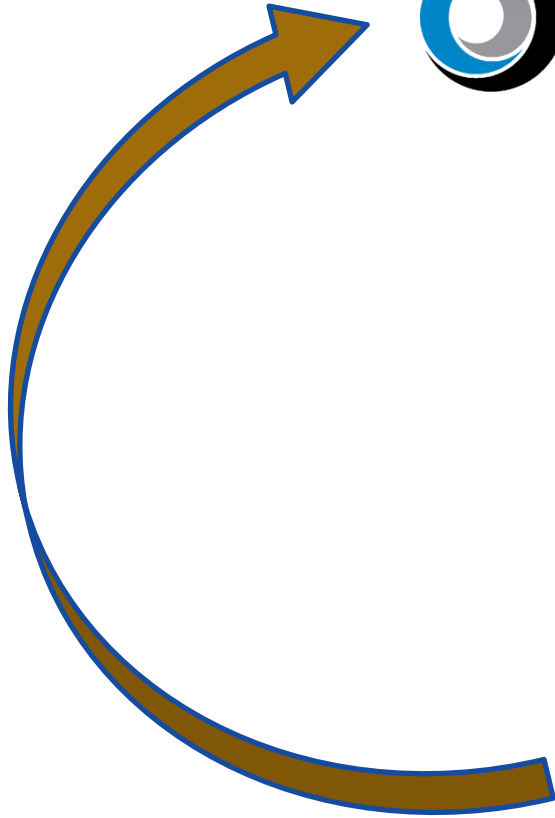
GHS

The Globally Harmonized
System of Classification
and Labeling of Chemicals




What is GHS?

- **Part of the Hazard Communication Standard**
- **Consistent System of Classification and Labeling of Chemicals**
- **Created by the United Nations**



Oregon OSHA's phase-in dates under the revised Hazard Communication Standard (HCS):

Effective Completion Date	Requirement(s)	Who
December 1, 2013 	Train employees on the new label elements and safety data sheet (SDS) format.	Employers
June 1, 2015 December 1, 2015	Compliance with all modified provisions of this final rule, except: The Distributor shall not ship containers labeled by the chemical manufacturer or importer unless it is a GHS label.	Chemical manufacturers, importers, distributors and employers
June 1, 2016	Update alternative workplace labeling and hazard communication program as necessary, and provide additional employee training for newly identified physical or health hazards.	Employers
Transition Period to the effective completion dates noted above	May comply with either 29 CFR 1910.1200 (the final standard), or the current standard, or both.	Chemical manufacturers, importers, distributors, and employers

FOR MORE INFORMATION
PLEASE VISIT OSHA'S WEBSITES:
http://orosh.org/subjects/hazard_communication.html
www.osha.gov/dsg/hazcom/index.html

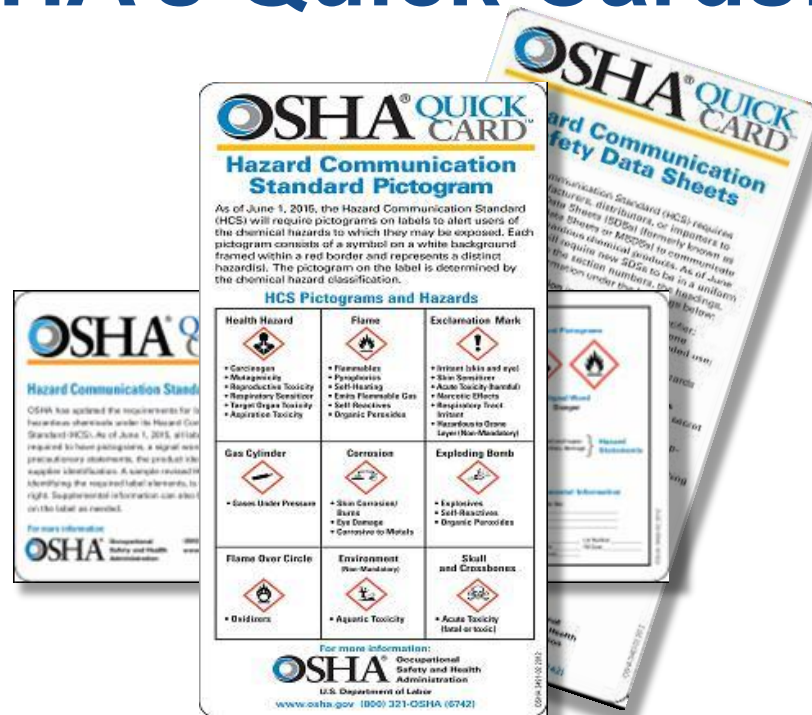


Changes of the Standard:

- **Labels**
- **Pictograms**
- **Safety Data Sheets**
- **Hazard Classification vs. Identification**



One way to get information are OSHA's Quick Cards:



<http://www.osha.gov/dsg/hazcom/ghsquickcards.html>

LABELS



SAMPLE LABEL

CODE _____
 Product Name _____

Product Identifier

Company Name _____
 Street Address _____
 City _____ State _____
 Postal Code _____ Country _____
 Emergency Phone Number _____

Supplier Identification

Keep container tightly closed. Store in a cool, well-ventilated place that is locked.
 Keep away from heat/sparks/open flame. No smoking.
 Only use non-sparking tools.
 Use explosion-proof electrical equipment.
 Take precautionary measures against static discharge.
 Ground and bond container and receiving equipment.
 Do not breathe vapors.
 Wear protective gloves.
 Do not eat, drink or smoke when using this product.
 Wash hands thoroughly after handling.
 Dispose of in accordance with local, regional, national, international regulations as specified.

In Case of Fire: use dry chemical (BC) or Carbon Dioxide (CO₂) fire extinguisher to extinguish.

First Aid

If exposed call Poison Center.
 If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water.

Precautionary Statements

Hazard Pictograms



Signal Word
Danger

Highly flammable liquid and vapor.
 May cause liver and kidney damage.

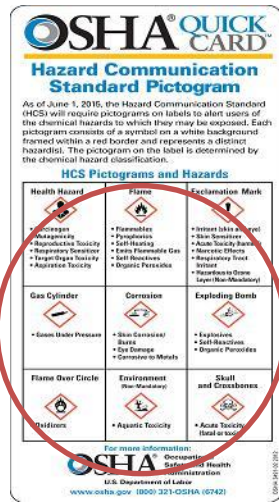
Hazard Statements










Supplemental Information

Directions for Use

Fill weight: _____ Lot Number: _____
 Gross weight: _____ Fill Date: _____
 Expiration Date: _____

PICTOGRAMS



<p>Health Hazard</p>  <ul style="list-style-type: none"> • Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity 	<p>Flame</p>  <ul style="list-style-type: none"> • Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides 	<p>Exclamation Mark</p>  <ul style="list-style-type: none"> • Irritant (skin and eye) • Skin Sensitizer • Acute Toxicity (harmful) • Narcotic Effects • Respiratory Tract Irritant • Hazardous to Ozone Layer (Non-Mandatory)
<p>Gas Cylinder</p>  <ul style="list-style-type: none"> • Gases Under Pressure 	<p>Corrosion</p>  <ul style="list-style-type: none"> • Skin Corrosion/ Burns • Eye Damage • Corrosive to Metals 	<p>Explosive Bomb</p>  <ul style="list-style-type: none"> • Explosives • Self-Reactives • Organic Peroxides
<p>Flame Over Circle</p>  <ul style="list-style-type: none"> • Oxidizers 	<p>Environment (Non-Mandatory)</p>  <ul style="list-style-type: none"> • Aquatic Toxicity 	<p>Skull and Crossbones</p>  <ul style="list-style-type: none"> • Acute Toxicity (fatal or toxic)

SAFETY DATA SHEETS

- Section 1 Identification
- Section 2 Hazard(s) identification
- Section 3 Composition/information on ingredients
- Section 4 First-aid measures
- Section 5 Fire-fighting measures
- Section 6 Accidental release measures
- Section 7 Handling and storage
- Section 8 Exposure controls/personal protection
- Section 9 Physical and chemical properties
- Section 10 Stability and reactivity
- Section 11 Toxicological information
- Section 12 Ecological information*
- Section 13 Disposal considerations*
- Section 14 Transport information*
- Section 15 Regulatory information*
- Section 16 Other information



SAFETY DATA SHEETS



Section 1, Identification

Section 2, Hazard(s) identification

SAFETY DATA SHEETS



Section 3, Composition/information on ingredients

Section 4, First-aid measures

Section 5, Fire-fighting measures

SAFETY DATA SHEETS



Section 6, Accidental release measures

Section 7, Handling and storage

Section 8, Exposure controls/personal protection

SAFETY DATA SHEETS



Section 9, Physical and chemical properties

Section 10, Stability and reactivity

Section 11, Toxicological information

SAFETY DATA SHEETS



Section 12, Ecological information*

Section 13, Disposal considerations*

Section 14, Transport information*

Section 15, Regulatory information*

Section 16, Other information, includes the date of preparation or last revision.

OSHA will not be enforcing Sections 12 through 15

Hazard Identification

vs.

Hazard Classification

Hazard Identification - MSDS

L'Oreal USA Products, Inc. PRODUCT: 0-25 Volume Developer
≥ 8% Hydrogen Peroxide (June 22, 2009)

**May cause skin and severe eye irritation.
Harmful if swallowed.**



**May cause severe irritation of gastric mucous
membranes if swallowed.**

**Prolonged contact with skin may whiten skin and
cause burns.**

**Decomposition yields oxygen and may support
combustion.**

Hazard Classification - SDS










L'Oreal USA Products, Inc. PRODUCT: 0-25 Volume Developer
≥ 8% Hydrogen Peroxide (July 17, 2012)

Classification	Hazard Statement	Prevention Statements
 Serious Eye Damage Category 1	Causes serious eye damage	<ul style="list-style-type: none">• Wear eye protection/face protection.• Chemical resistant goggles or a face shield is appropriate for the manufacturing environment. Wash hands and face thoroughly after handling.
 Oxidizing Liquid Category 3	May intensify fire, oxidizer	<ul style="list-style-type: none">• Keep away from heat.• Storage away from combustibles (e.g. paper), organics, and metals (e.g. Iron).• Take precaution to avoid mixing with combustible and organic materials.• Wear protective gloves and eye/face protection when in the manufacturing environment.

Harmful if swallowed. Overexposure may cause skin dryness or slight irritation. Prolonged contact may whiten skin. May cause irritation of gastric mucous membranes if swallowed.

For more information:

http://orosha.org/subjects/hazard_communication.html

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