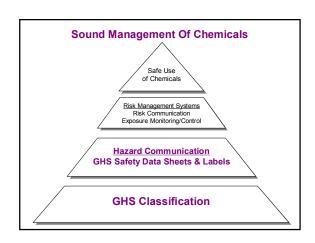
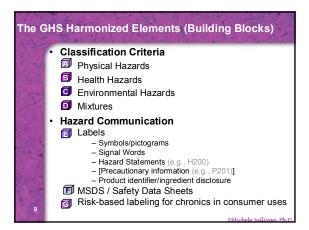


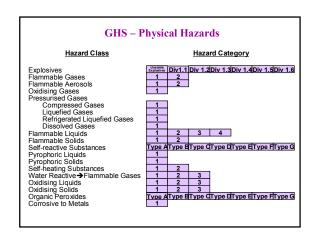
ANPR: Consistency in OSHA Standards • Most commenters suggested that OSHA's standards need to be internally consistent, and that those impacted by GHS changes should also be modified. • Flammability was the definition of most concern. Reference to the HCS flammability definition in Process Safety Management is one example of a standard that would be greatly impacted by a GHS change. • OSHA is in the process of reviewing all standards potentially impacted to determine the appropriate course of action. • Coordination with other Federal agencies was also cited.

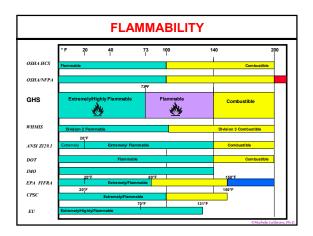
Control Banding/GHS Control Banding approach to protecting worker health by focusing resources on exposure controls. It is not possible to assign a specific OEL/WEL to every chemical in use qualitative approach to risk assessment & management grouping workplace hazard's into hazard "control bands" based on hazard classification, task performed, and, in the case of chemicals, the quantity of the chemical. The GHS will provide consistent hazard classifications to be used in Control Banding

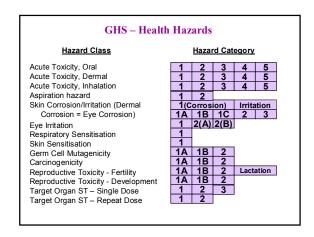
What is the GHS? Common and coherent approach to defining and classifying hazards, and to communicating information on labels and MSDS It provides the informational framework as a basis for the sound management of chemicals The GHS is not a model regulation or legislation. It consists of harmonized and standardized elements which are specified and assigned. It permits self-classification The system is structured so that appropriate elements for classification and communication, which address the target audiences, can be selected (building blocks).

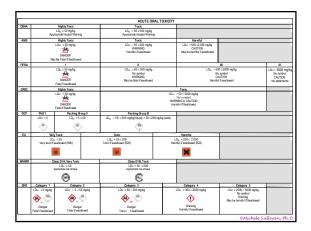


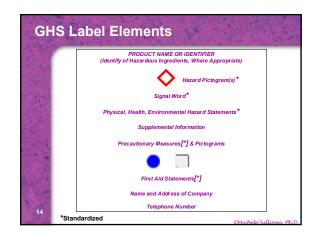


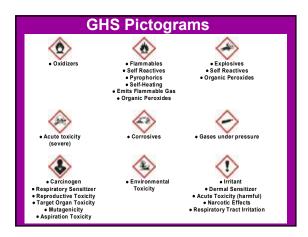


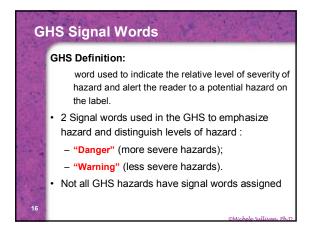










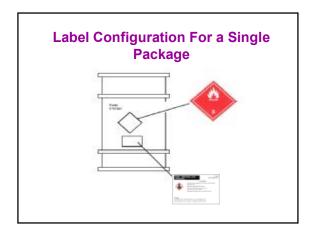


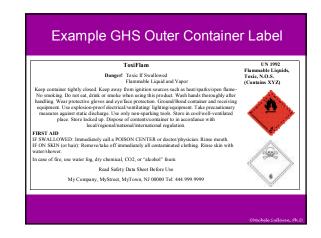




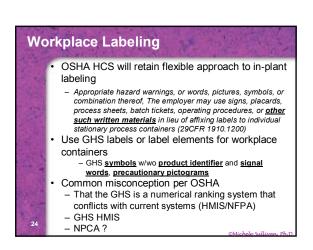




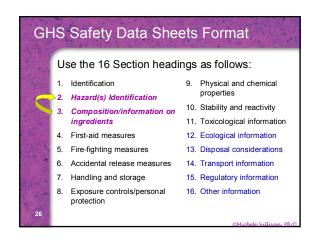


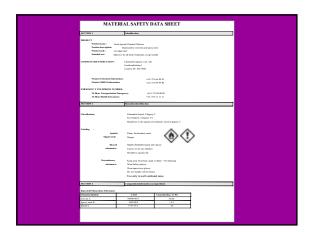


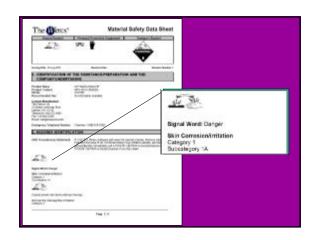


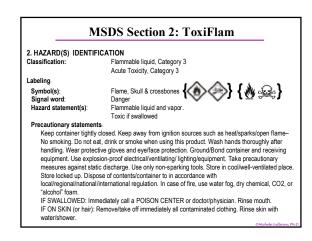


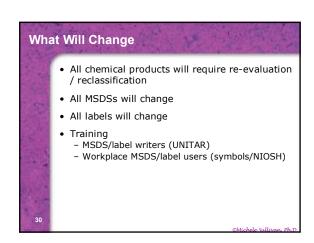
Primary Use: The Workplace Standardized 16 section GHS format GHS Sections 2 and 3 are now reversed Finiliar to ANSI Z400.1-2004 Besides health and safety information. OSHA plans to present all 16 GHS SDS Sections for consistency & harmonization while making it clear which sections OSHA enforces & has jurisdiction over

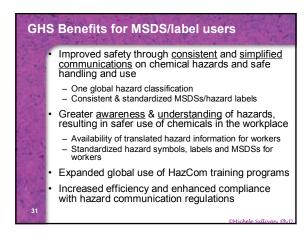


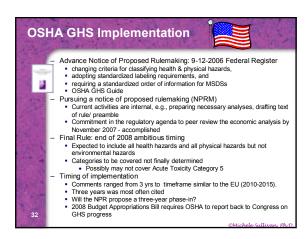












OSHA's ANPR Over 100 comments were received and are accessible on the OSHA website Overall most commenters supported adoption of the GHS Wide range of responses to questions about hazard determination, & "floor" of hazardous chemicals. Some supported the current approach. Others felt to be consistent with GHS, there should be no floor. Some argued about the legality of referring to certain sources in the standard.

Pange of responses about exposure limits to be included on the SDS. Some argued that only OSHA PELs should be required. Others indicated that ACGIH TLVs should continue to be required, particularly since the PELs are outdated in many situations. Other suggestions for inclusion: NIOSH RELs, AIHA WEELs.

Glo	obal GHS implementation
	Japan has mostly implemented the GHS ~1500 GHS chemical classifications in Japanese NZ and Korea have July 2008 implementation ~Asia Pacific region is a GHS driver Expected EU implementation 2010-2015 ~GHS chemical classifications Canada has 2008 goal - ambitious
	 IPCS International Chemical Safety Cards will have GHS classifications for chemicals
35	• Etc.
THE RESERVE AND ADDRESS.	minute in the second

	mentation Status (Feb. 1, 2008)	
Country	Target Implementation Date	Notes
		Dec. 1 2006 implementation only for products containing >= 1% of 100 selected ISHL-
		regulated chemicals. Expansion to include all 640 bird, regulated chemicals at varying
	12/1/2006	con contactions will become effective Dec. 1, 2009. Full complian to including SDS deadline is Dec. 21, 2010.
2000	12/11/2008	molemented in 2008, SCRS compliance by June 30 2008, but labels that GHS compliances
New Zealand	2006	
		Ministry of Lates Talk issued Kolean Code of Pladice for the Cassification, & Preparation
Korea	1/19907	of Labeling, & SiDS, Deadline for full compliance is June 20, 2008
Thaland	Dec-07	Phase approach: Fe3, 2009 for Pure subs. Feb, 2010 for mixtures. Implementation on Jan. 1, 200 fliwith enforcement scheduled for Dec. 21, 2008. Proposal to
		implementation on Jan. 1, 200 if with entiricement achedused for Dec. 31, 2008. Proposal to begin with CLA (Council of Lator AT) taxic and dangerous goods for transport regulated
Yaleso	5-30-09	the price's initials:
105004.63	Expos	Draft standard available disconesias only, no enforcement date yet
European Union	\$130007	tear (2010) followed by Preparation compliance in additional 4.5 yes. (2016)
		Draft codes of practice out for public comment until March 2007. Proposed implementation
Australia	1/10008	in 2008 in accordance with UN recommendation.
		All ASSIAN countries committe dito adopt GHS by Dec 2008, but no guidance on GHS SDS or label and constraint use.
Malaysia	Dec-DB	AT ASSAM COUNTRY CONTINUE DISTRIBUTE AND ADOLD CHILD SYDNEC 2005. But no purchase on time state.
Sincapore	Dec-08	or label enforcement vec
		At ASSAN countries committe d'to adopt GHS by thec 2008, but no guidance on GHS SER
Vetten	Dec-08	or label enforcement yet
		At ASSAN countries committe if to adopt GHS by thec 2008, but no guidance on GHS SIDS
Philopines	Dec-DB	or label enforcement yet
		AQSIQ (Genaral Admin. Of Quality Supervision, Inspection and Quarantine) is lead. Classification standards out time of Propose of its demonstron in 2008 in a goorgance with
COL	9000	UN recommendation, but is details or plan developed.
		Proposed implementation in 2006 in accordance with UN recommendation during details
Hong Kong	2008	or plan developed.
		Revising national technical regs to adop t GHGs, but no its plementation details or plan
Russia	2008	Draft Presidential decree to form GHS Work Gloup to work along with ABSCUIN to lead
		this filt Presidential decree to form GHz Work Gloup to work along with ARRQUIN to lead implementation. Projected implementation is 200% but no implements for details or plan.
Borris	2000	
		National GHS workshops held in 2006, regional workshop scheduled for Apr. 2007. Will
		Skely implement in 2009 in concert with Strazil, but no implementation details or plan
Argentina	2009	drwitged.
Chin		National govt agency discussion, Health Ministry is lead agency. Will likely implement in
Chip	209	2009 in concert with Brazil, but no implementation details on a lan developed. No GHS implementation details or plan developed, Will Stell Implement in 2009 in concert.
Peru	2000	
		No GHS implementation details or plan developed, Will their implement in 2009 in as roset.
Columbia	2009	with \$100E.
Monancain		No GHS implementation details or plan developed. Will thely implement in 2009 in us now to
Vertebuilde	2009	with Brace. AN IQ is leading. Will implement along with other APEC countries but no implementation.
Mexico	2009	
		Health Can ada taking the lead, but est in discussions using the Ca radian tipartite
		approach. Plants conduct an economic analysis in mid-bit. Target implementation-date is
Carada	2008-2008	2009.
		Multi-agency discussion underwaywith CISHA taking the last it. DOT/MDG/sCAOn ave
		adopted GHS dask 2 and 6 orbins for tamport in 2007 and plan to adopt the GHS class to orbins for aquatic toxicity in 2009. CropLife America is objecting to FIFRA-required
		product inclusion in GHB, CPSC is just beginning to investig ate GHB implications for
		ranging between 2017-0112, but no additional implementation details or plan developed
United States	2009	MI.
		Draft standard open for commert until Jan. 08. Once approved, there will be a 3 yr.
South Africa		transition period for ours substances and Twis for martures.
Color Legend:	At eady implemented triplem entation eminiment	
	report models attended	
	Instanceano proceded	

UN GHS Purple Book www.unece.org/trans/danger/publi/ghs/ghs_rev01/01files_e.html UN GHS Implementation Status of Countries/Regions www.unece.org/trans/danger/publi/ghs/implementation_e.html GHS Guide www.osha.gov/dsg/hazcom/GHSGuideOct05.pdf USA DOT: http://hazmat.dot.gov/regs/intl/globharm.htm EPA: www.epa.gov/oppfead1/international/globalharmon.htm OSHA: www.osha.gov/SLTC/hazardcommunications/global.html www.osha.gov/jsLTC/hazardcommunications/global.html www.osha.gov/jsLTC/hazardcommunications/global.html www.osha.gov/jsLTC/hazardcommunications/global.html www.osha.gov/jsLTC/hazardcommunications/global.html butto://www.osha.gov/jsLTC/hazardcommunications/global.html www.osha.gov/jsLTC/hazardcommunications/global.html www.osha.gov/jsLTC/hazardcommunications/global.html http://ec.europa.eu.int/comm/enterprise/reach/ghs_en.htm http://ec.europa.eu.int/comm/enterprise/reach/ghs_consultation_en.htm