

# Globally Harmonized System (GHS)

## Fact Sheet

The United States Occupational Safety and Health Administration (OSHA) has adopted and is requiring the implementation of the United Nations' *Globally Harmonized System (GHS) of Classification and Labeling of Chemicals*. Implementation of the Globally Harmonized System will include changes in Safety Data Sheets, Labeling, and Pictograms.



**The goal of GHS is to communicate hazard information in a prescribed and uniform way on labels and safety data sheets.**

GHS PICTOGRAMS	
Corrosive	
Flammable	
Irritant	
Acute Toxicity	
Oxidizer	
Explosive	
Environmental Hazard	
Compressed Gas	
Health Hazard	

### SAFETY DATA SHEET (SDS)

The documents formally called Material Safety Data Sheets (MSDS) are now known as Safety Data Sheets (SDS) under the Globally Harmonized System.



A SDS identifies the substance and its hazardous properties, and outline appropriate safety precautions. A SDS is comprised of 16 standardized sections:

- |                                |                                 |                             |
|--------------------------------|---------------------------------|-----------------------------|
| 1. Identification of Substance | 7. Handling & Storage           | 13. Disposal Considerations |
| 2. Hazard Identification       | 8. Exposure Controls/PPE        | 14. Transport Information   |
| 3. Composition of Ingredients  | 9. Physical/Chemical Properties | 15. Regulatory Information  |
| 4. First-Aid Measures          | 10. Stability & Reactivity      | 16. Other Information       |
| 5. Fire-Fighting Measures      | 11. Toxicological Information   |                             |
| 6. Accidental Release Measures | 12. Ecological Information      |                             |



### GHS LABELING

- 1: Substance Identification
- 2: Pictogram
- 3: Signal Word  
"Warning" or "Danger"
- 4: Hazard Statement
- 5: Precautionary Statement
- 6: Supplier Information

<b>2</b> 	<b>1</b> Sulfuric Acid	<b>2</b> 
	<b>3</b> Danger! May be harmful if swallowed. Causes severe skin burns and eye damage. Fatal if inhaled. Harmful to aquatic life.	
	Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.	
<b>5</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.	
	In case of fire Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
	See Material Safety Data Sheet for further details regarding safe use of this product.	
<b>6</b>	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA Telephone : +18003255832	

### TRANSPORT PICTOGRAMS

Changes have also occurred in the pictograms used in the shipping hazardous substances. The GHS transport pictograms have that same background, symbol, and colors that are currently required by the United Nations recommendations for the Transport of Dangerous Goods.

This fact sheet is not all inclusive, but provides background information on the GHS transition. For further questions, please contact Environmental Health & Safety (951) 827.5528