Introduction to the Globally Harmonized System of Classification and Labeling of Chemicals

GHS Training Module 1
Disclaimer:
This program provides guidance and useful information for qualified personnel conducting employee training. It is up to the user of this information to determine the suitability of these training materials for their specific operations. This program is not designed to be self directed. It should always be led by someone that has demonstrated knowledge in GHS and the associated requirements mandated by OSHA. Multi-Clean does not make any claims express or implied that this training alone is suitable for training of employees or meets all training requirements. It is up to the user of these training materials to make this determination.
GHS Training Program

Module 1: Overview of the Globally Harmonized System of Classification of Chemicals. Specific and detailed information that is mandated in OSHA are found in Module 2 and Module 3.

Module 2: Understanding Safety Data Sheets

Module 3: Understanding GHS label elements.
What is GHS?

- GHS is a worldwide effort to standardize hazardous information in order to enhance the protection of human health.
- GHS takes a harmonized approach to:
  - Defining health, physical, and environmental hazards of chemicals
  - Creating classification processes for each hazard
  - Communicating hazard information and protective measures on labels and safety data sheets
Effective Dates

- **December 1, 2013** - Train employees on new GHS label elements and Safety Data Sheets.

- **June 1, 2015** – all manufacturers and distributors comply with labeling and SDS.

- **June 1, 2016** – fully implemented GHS system and updated Employee Right to Know programs.
How does GHS affect you?

- New standardized format for safety data sheets and product labels
What type of Products are Affected?

- Acid products i.e. Bowl Cleaners, Lime Scale Removers
- Strong Alkaline products i.e. some Degreasers
- Floor Strippers
- Disinfectants and Sanitizers

**IMPORTANT:** Many products used on a daily basis are classified as non-hazardous and therefore will NOT have a Pictogram or Signal Word associated with it. These products will however use the GHS compliant Safety Data Sheet Format.
Safety Data Sheets

1. Identification:

Product Identification: MAGICO
Recommended Use: General Purpose Water-Based Cleaner
Producer / Distributor: Mr. Clean
5400 Eagan Road
Shakopee, MN 55379
Telephone Number for Information: 612-481-1900
Emergency Telephone Number: 400-225-2014

2. Hazard Identification:

Classification:
- Health Class: Mild Skin irritation Category 3
- Physical Class: Eye Irritant Category 2
- Environment Class: 

Hazard Statements:
- Causes eye and mild skin irritation.

Precautionary Statements:
- Wash hands thoroughly after handling.
- Avoid inhalation, occur, get medical attention.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydrogen Peroxide</td>
<td>7722-84-5</td>
<td>1-5</td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td>60-100</td>
</tr>
</tbody>
</table>

4. First-Aid Measures:

- Ingestion: If swallowed, drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person.
- Eye Contact: Flush with running water for at least 15 minutes. If irritation persists, consult a medical attention.
- Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing before reusing.
- Inhalation: Move to fresh air.

5. Fire Fighting Measures:

- Suitable Extinguishing Media: Not applicable
- Special Fire-fighting Procedures: Not applicable
- Unusual Fire and Explosion Hazards: None one known

6. Accidental Release Measures:

- Decontamination: Use absorbent material (sand, earth, etc.). Collect spill with a mop, absorbent material (example: floor dry) or vacuum.
- Disposal: Spill into an impermeable container. Disposal method of waste should be handled in accordance with applicable local, state and federal regulations.

7. Handling and Storage:

- Handling: Keep from freezing. Keep out of reach of children.
- Storage: Normal care for storage.

8. Exposure Controls / Personal Protection:

- Snaz Methods: No listed
- Engineering Controls: No listed
- Personal Protective Equipment:
  - Eye Protection: Not required, Avoid breathing spray mist

9. Physical and Chemical Properties:

- Physical State: Liquid
- Appearance: Blue
- Odor: Floral
- Specific Gravity: 1
- Flash Point: None
- Boiling Point: > 212°F (100°C)
- Vapor Density (Air = 1): NA
- Flammability: None

10. Stabilities and Reactivity:

- Stability: Stable
- Possibility of Hazardous Reactions: None known
- Incompatibility (Materials to Avoid): None known
- Hazardous Decomposition or By-products: None
- Hazardous Polymerisation: Will not occur

11. Toxicological Information:

- Signs and Symptoms of Over Exposure: Causes irritation on direct contact
- Acute Effects: Eye Contact: Causes irritation on contact
- Skin Contact: Causes mild irritation on prolonged or repeated contact

12. Ecological Information:

- Persistence and Degradability: Not available
- Bioaccumulative Potential: Not available
- Mobility in Soil: Not available
- Aquatic Toxicity: Not available

13. Disposal Considerations:

- Material that cannot be used in normal use should be disposed of in accordance with all applicable local, state and federal regulations. Waste from normal cleaning procedures may be disposed of in a sanitary sewer depending on the materials and/or contaminants being cleaned as well as local, state and federal sewer regulations.

14. Transportation Information:

- UN Number: None
- Shipping Name: Cleaning Compound, Liquid
- Transport Hazard Class: None
- Packing Group: None
- MarinePollutant: NO
## Safety Data Sheets

### Regulatory Information:
- **TSCA Status:** All ingredients listed
- **Clean Water Act:** None of the chemicals in this product are listed under the CWA
- **Clean Air Act:** None of the chemicals in this product are listed under the CAA
- **CERCLA Reportable Quantity:** None
- **SARA Title III Information:**
  - Section 302 Extremely Hazardous Chemicals: None Listed
  - Section 311 / 312 Hazard Category: None
  - Section 313 Toxic Chemicals: None Listed
- **State Regulations:** None
- **International Regulations:** None

### Other Information:
- **Prepared By:** Ron Camp
- **Telephone Number:** 651-481-1900
- **Revision Date:** 6/7/2013
- **Supersedes:** 4/1/2011

The information contained herein is based on data considered accurate; however, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. The company assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
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<tbody>
<tr>
<td>Flammability</td>
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</tr>
<tr>
<td>Physical hazards</td>
<td>0</td>
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</tbody>
</table>
Safety Data Sheets

- 16 category format: Summary of each category
- 1. Identification of the substance or mixture and of the supplier
- 2. Hazards identification
- 3. Composition/information on ingredients
- 4. First aid measures
- 5. Firefighting measures
- 6. Accidental release measures
- 7. Handling and storage
Safety Data Sheets

8. Exposure controls/personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal considerations
14. Transport information
15. Regulatory information
16. Other information including info on preparation and revision of the SDS
Labels

910475 Citrus Assault

Causes severe skin burns and eye damage. May cause an allergic reaction. Avoid fertility or the unborn child. May cause damage to organs (liver).

Do not breathe dusts or mists. Wash hands thoroughly after handling. Avoid contact with eyes. Contaminated work clothing should not be allowed to enter the home. Do not eat, drink, or smoke when using this product.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If decontaminated clothing clothing. Rinse skin with water. Wash contaminated work clothing in soap and water before returning to work. Remove contaminated clothing, if present and easy to do. Contents of the chemical are flammable. Keep out of reach of children. In case of contact, get medical attention. If expired or in concerned. Decontamination of the chemical in accordance with local regulations.

The following chemicals are listed in accordance with state laws. Safety Data Sheet (SDS).

Multi-Clean

Better Faster Safer

MC

Citrus Degreaser

Dangers
Labels

• Requirements of every label:
  • Product identifier
  • Supplier identification
  • Hazard statement(s)
  • Precautionary statements
  • Signal word (if required)
  • Hazard pictogram (if required)
Pictogram

- A symbol that is intended to relay specific hazard information in a quick and easy manner
- Pictograms appear on both a product’s label and SDS
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>Flame</td>
<td>Flammables, Self Reactives, Pyrophorics, Self-heating</td>
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<tr>
<td>Flame Over Circle</td>
<td>Oxidizers</td>
</tr>
<tr>
<td>Exclamation Mark</td>
<td>Irritant, Dermal Sensitizer, Acute Toxicity (harmful)</td>
</tr>
<tr>
<td>Exploding Bomb</td>
<td>Explosives, Self Reactives, Organic Peroxides</td>
</tr>
<tr>
<td>Corrosion</td>
<td>Corrosives</td>
</tr>
<tr>
<td>Gas Cylinder</td>
<td>Gases Under Pressure</td>
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<tr>
<td>Health Hazard</td>
<td>Carcinogen, Respiratory Sensitizer, Reproductive Toxicity</td>
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Health Hazard

This pictogram communicates hazards to human health, including acute toxicity, specific target organ toxicity, and reproductive toxicity.
Corrosion

This pictogram indicates whether a product is corrosive to skin, eyes, and/or metal.
Exclamation Mark

This pictogram communicates a less serious hazard, such as skin sensitization or skin/eye irritation.
Flame

This pictogram will appear on products that are classified as flammable or combustible.
For SDS information on all Multi-Clean products, please visit www.multi-clean.com

This completes Module 1, go to Module 2....
Understanding GHS Safety Data Sheets.