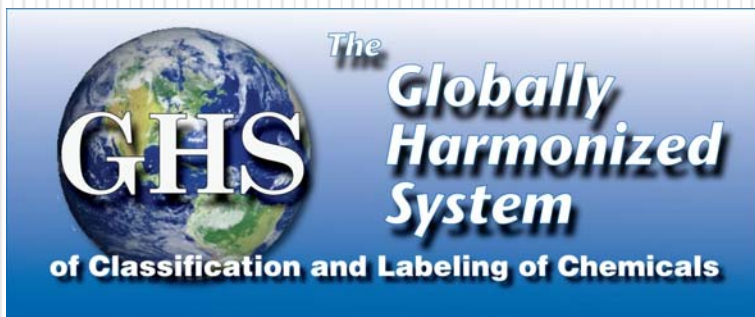


# Introduction to the Globally Harmonized System of Classification and Labeling of Chemicals

## 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

Safety Data Sheets (SDS) 908950 MAGICO

6/7/2013

## 1. Identification:

Product Identity: **MAGICO**  
 Recommended Use: General Purpose Water-Based Cleaner  
 Producer / Distributor  
 Multi-Clean  
 600 Cardigan Road  
 Shoreview, MN 55126  
 Telephone Number for Information: 651-481-1900  
 Emergency Telephone Number: 800-255-3924

**Multi-Clean®**  
 Your Guide To Clean

## 2. Hazard Identification:

Classification:  
 Health Class Physical Class Environment Class  
 Mild Skin Irritation Category 3  
 Eye Irritation Category 2

Label  
 Symbols



### Hazard Statements:

Causes eye and mild skin irritation.

### Precautionary Statements:

Wash hands thoroughly after handling.  
 If skin irritation occurs: Get medical attention.  
 IF IN EYES: Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical attention.

## 3. Composition/Information on Ingredients

| Ingredient               | CAS Number  | Percent by Weight |
|--------------------------|-------------|-------------------|
| Biodegradable Surfactant | Proprietary | 1 - 5             |
| Sodium Xylene Sulfonate  | 1300-72-7   | 5 - 10            |
| Water                    | 7732-18-5   | 60 - 100          |
| Fragrance                | Proprietary | 1 - 5             |

## 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 eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention.  
 Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.  
 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 are known

## 6. Accidental Release Measures:

Dike and contain spill with inert material (sand, earth, etc.). Collect spill with a mop, absorbent material (example: floor-dry) or vacuum.  
 Thoroughly rinse affected area with water.

## 7. Handling and Storage:

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

Safety Data Sheets (SDS) 908950 MAGICO

6/7/2013

## 8. Exposure Controls / Personal Protection:

|                                |  |          |           |
|--------------------------------|--|----------|-----------|
| Exposure Limits:               | CAS Number                               | Osha PEL | ACGIH TLV |
| Ingredients:                   | XXXX                                     | XXX      | XXX       |
| None Listed                    |  |          |           |
| Exposure Controls:             |  |          |           |
| Engineering Controls:          | Normal good ventilation is sufficient    |          |           |
| Personal Protective Equipment: |  |          |           |
| Eye Protection:                | Approved Safety Goggles or Glasses       |          |           |
| Skin Protection:               | Chemical Resistant Rubber Gloves         |          |           |
| Respiratory Protection:        | Not required, Avoid breathing spray mist |          |           |

## 9. Physical and Chemical Properties:

|                          |          |                             |                  |
|--------------------------|----------|-----------------------------|------------------|
| Physical State:          | Liquid   | pH:                         | 6.5 - 8          |
| Appearance:              | Blue     | Specific Gravity (H2O = 1): | 1                |
| Odor:                    | Floral   | Flammability:               | None             |
| Solubility:              | Complete | Flash Point:                | None             |
| Evaporation Rate:        | NA       | Boiling Point:              | > 212° F (100°C) |
| Vapor Pressure (MM HG):  | NA       | %volatile:                  | > 90%            |
| Vapor Density (Air = 1): | NA       |                             |                  |

## 10. Stability and Reactivity:

Chemical Stability: Stable  
 Possibility of Hazardous Reactions: None are known  
 Incompatibility (Materials to Avoid): None are known  
 Hazardous Decomposition or By-products: None  
 Hazardous Polymerization: Will not Occur  
 Conditions to Avoid: None are known

## 11. Toxicological Information:

Signs and Symptoms of Overexposure: Causes irritation on direct contact  
 Acute Effects:  
 Eye Contact: Causes irritation on contact  
 Skin Contact: Causes mild irritation on prolonged or repeated contact  
 Inhalation: None Known  
 Ingestion: May be harmful if swallowed  
 Target Organ Effects: None Known  
 Chronic Effects: None Known  
 Acute Toxicity Values:  
 Oral LD<sub>50</sub> = > 5000 mg/kg  
 Dermal LD<sub>50</sub> = > 5000 mg/kg  
 Inhalation (Vapor) LC<sub>50</sub> = Vapors Considered Non

## 12. Ecological Information:

Persistence and Degradability: Not Available  
 Bio Accumulative Potential: Not Available  
 Mobility in Soil: Not Available  
 Aquatic Toxicity: Not Available

## 13. Disposal Considerations:

Material that cannot be used during 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  
 Marine Pollutant: NO



# Safety Data Sheets

Safety Data Sheets (SDS)

908950 MAGICO

6/7/2013

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**15. 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

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**16. Other Information:**

**Prepared By:** Ron Camp

**Telephone Number:** 651-481-1900

**Revision Date:** 6/7/2013

**Supersedes:** 4/1/2012

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



|                         |   |
|-------------------------|---|
| <b>Health</b>           | 1 |
| <b>Flammability</b>     | 0 |
| <b>Physical hazards</b> | 0 |

# 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



# Labels

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



# Example Multi-Clean Label

**CITRUS ASSAULT** is a concentrated, multi-use cleaner/degreaser used to effectively clean dirt and oils from a variety of surfaces. Use on walls, cabinets, equipment, concrete floors and a variety of other surfaces. Not for use on finished tile or terrazzo floors. CANADA: For food plant and other industrial use. Avoid contamination of food in the application and storage of the product. Do not use on food contact surfaces. Meets USDA C-1 type products.

**DIRECTIONS:** 1) Dilution: Light soil: 1-2 oz/gal. (5-15 milliliters) of water. Use in spray bottles at 4-6 oz/gal. (30-60 milliliters) for general purpose cleaning. Heavy grease/oil deposits: 5-16 oz/gal. (80-120 milliliters) of water. 2) Apply with an automatic scrubber, pressure washer, mop, pump-up sprayer, sponge, etc. Rubber gloves should be used when cleaning by hand. 3) Allow sufficient time for solution to attack grease or oil. 4) Use only on surfaces resistant to alkaline cleaners. Floor finish and other sensitive surfaces may be adversely affected.

**CITRUS ASSAULT** est un agent de nettoyage/dégreissant utilisé pour nettoyer de façon efficace la saleté et les huiles d'une variété de surfaces. Utiliser sur les murs, les poutres, les équipements, les planchers de béton et une variété d'autres surfaces. Ne pas utiliser sur des carreaux finis ou sur les planchers de granito. CANADA: Pour l'usage de nourriture et tout autre usage industriel. Éviter la contamination de la nourriture dans l'application et le stockage du produit. N'utiliser pas sur des surfaces de contact de nourriture.

**MODE D'EMPLOI:** 1) Dilution: Nettoyage léger: 1-2 onces/gallon (5-15 millilitres) d'eau. Nettoyage normal: Pour utilisation avec des bouteilles à vaporisateur, diluer de 30 à 60 ml par litre (4 à 8 onces par gallon) pour le nettoyage général. Nettoyage difficile: 5-16 onces/gallon (80-120 millilitres) d'eau. 2) Appliquer à l'aide de machines de nettoyage automatique, de vaporisateur à pompe, d'appareils de lavage à haute pression, d'éponges ou de serpillères. Le port de gants protecteurs est conseillé lorsqu'on nettoie à la main. 3) Laisser la solution agir suffisamment longtemps pour qu'elle puisse attaquer la graisse et l'huile. 4) N'utiliser que sur des surfaces résistant aux nettoyants alcalins. La friction du sol et toute autre surface délicate risquent d'être affectées.

La CITRUS ASSAULT es un limpiador/degreasador para servicios pesados, destinado a utilizarse en fridoladoras automáticas para limpiar pisos industriales de concreto. CANADA: Para la planta del alimento y el otro uso industrial. Evite la contaminación del alimento en la aplicación y el almacenamiento del producto. No utilice en superficies de contacto del alimento.

**INSTRUCCIONES:** 1) Diluciones: Suciedad ligera: 1-2 onzas/galón (5-15 mililitros) de agua. Limpieza normal: 4-6 onzas/galón (30-60 mililitros) de agua; Grasa o aceite abundante: 5-16 onzas/galón (80-120 mililitros) de agua; 2) Aplique con espolador automático, lavadora a presión, trapeador, rodador de bomba manual, esponja, etc. Debe usar guantes de goma cuando limpie a mano. 3) Espere el tiempo suficiente para que la solución disuelva la grasa o el aceite. 4) Use esta solución solamente en superficies resistentes a limpiadores alcalinos. Puede afectar desfavorablemente el acabado de pisos y otras superficies sensibles.


## Citrus Assault

**Citrus Based  
All Purpose Degreaser**


**Natural d-Limonene**

**Economical  
Dilutable  
USDA C-1**

Net Contents 1 US Gallons (3.78L)



DANGER



Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs (kidneys).

Do not breathe dusts or mists. Wash hands thoroughly after handling. Wear protective clothing/eye protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink, or smoke when using this product.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. **IF ON SKIN:** Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local regulations.

The following chemicals are listed in accordance with state law: Sodium Metasilicate, CAS #6834-92-0; Alcohol Ethoxylate, CAS #94385-01-1; Water, CAS #7732-18-5.

**Warning & Disclaimer:** This product is to be used only by appropriately trained personnel. IMPROPER USE POSSES RISK OF PHYSICAL INJURY OR PROPERTY DAMAGE. See appropriate Method Bulletin for further warnings and information. The suitability of and proper application of this product is the responsibility of the applicator. The manufacturer disclaims all warranties, express and implied, including any warranties of MERCHANTABILITY AND FITNESS OF PURPOSE. The manufacturer's liability is limited to replacement of or reimbursement for any product proved defective. No person has authority to waive these disclaimers or make any representations or warranties on behalf of the manufacturer, except in writing signed by the manufacturer.



600 Cardigan Road  
Shoreview, Minnesota  
Phone 651-481-1900  
www.multi-clean.com



**Item No.  
910473**

|                  |   |
|------------------|---|
| Health           | 2 |
| Flammability     | 0 |
| Physical Hazards | 0 |



0 89705 10473 2  
Citrus Assault 1 Gallon











# 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



**Figure C.1 – Hazard Symbols and Classes**

| Flame   | Flame Over Circle   | Exclamation Mark   | Exploding Bomb   |
|---|---|--|--|
|  <p>Flammables<br/>Self Reactives<br/>Pyrophorics<br/>Self-heating<br/>Emits Flammable Gas<br/>Organic Peroxides</p> |  <p>Oxidizers</p>              |  <p>Irritant<br/>Dermal Sensitizer<br/>Acute Toxicity (harmful)<br/>Narcotic Effects<br/>Respiratory Tract Irritation</p>                   |  <p>Explosives<br/>Self Reactives<br/>Organic Peroxides</p> |
| Corrosion   | Gas Cylinder  | Health Hazard  | Skull and Crossbones   |
|  <p>Corrosives</p>   |  <p>Gases Under Pressure</p> |  <p>Carcinogen<br/>Respiratory Sensitizer<br/>Reproductive Toxicity<br/>Target Organ Toxicity<br/>Mutagenicity<br/>Aspiration Toxicity</p> |  <p>Acute Toxicity (severe)</p>                            |



# 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](http://www.multi-clean.com)

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