

Safety Data Sheets Manual



Dear Restaurant Manager:

As your cleaning chemical supplier, we are pleased to provide you with this Safety Data Sheets Manual. This manual addresses the Workplace Hazardous Materials Information System (WHMIS 2015). Many portions of this manual can be used to create a written Hazard Communications Program.

Included in the manual:

- A review of the Workplace Hazardous Materials Directorate legislation
- A training presentation script for you to read and complete with information specific to your restaurant
- Visual aids to help employees get a better understanding of Safety Data Sheets (SDS)
- A training log to help you maintain records
- A hazardous chemical list to log the products in your restaurant that are considered hazardous
- A “non-routine tasks” list to record any occasional or unusual jobs during which an employee could experience chemical exposure
- A contractor acknowledgment form to verify training of any contract personnel who could have exposure to chemicals at your work location.

What you need to provide:

- A SDS for each chemical product in your restaurant. *These should always be stored in the Right To Understand binder.

If you have any questions about the manual or your responsibilities under the Workplace Hazardous Materials Directorate legislation, please contact Customer Service at 800-35-CLEAN or 800-352-5326.

Sincerely,

Ecolab Co.

Safety Data Sheets Manual



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Review of Law

ATTENTION MANAGER:

UNDER THE PROVISIONS OF THE WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM, EMPLOYERS ARE RESPONSIBLE FOR INFORMING EMPLOYEES OF THE HAZARDS AND THE IDENTITIES OF WORKFORCE CHEMICALS TO WHICH THEY ARE EXPOSED. FIRST, YOU MUST DEVELOP A WRITTEN HAZARD COMMUNICATION PROGRAM.

It is a WHMIS 2015 requirement for an employer to have a joint health and safety committee/representative, conduct workplace inspections, disseminate information, promote training and education and resolve occupational health and safety disputes. It is helpful to have a written program to manage this.

All employers are required to provide information to all employees concerning chemical safety in the workplace, according to WHMIS.

Enforcement of WHMIS is managed by provincial/territorial occupational health and safety authorities.

Employer requirements:

- Educate and train workers on the hazards and safe use of products.
- Ensure that hazardous products are properly labelled.
- Provide access to up-to-date SDSs to workers.
- Ensure appropriate control measures are in place to protect the health and safety of workers.

IMPORTANT

- This Safety Data Sheet (SDS) Manual is designed to assist you in complying with Federal Hazard Communication regulations. It does not address any additional provincial or local regulations.
- This SDS Manual is designed to provide information regarding its subject matter that is accurate as of its preparation date. Ecolab has no obligation to update its contents to reflect or communicate any change in or interpretation of the applicable laws or regulations. Ecolab does not assume any legal responsibility for any results arising from the use of this manual or any information in it. Please consult your legal adviser to make sure your restaurant meets all applicable health and safety regulations pertaining to your operation.
- Be sure you have an SDS for each hazardous chemical in your store. Contact your chemical product supplier immediately if you are missing any SDS. If you need an SDS for a Ecolab product, call customer service at 800-35-CLEAN or 800-352-5326.

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Manager's Outline

ATTENTION MANAGER:

1. TRAIN EMPLOYEES

IMPORTANT:

Employees are to be trained as part of their initial job orientation and then whenever a new hazard is introduced into their work area.

- A.** Arrange time and place for training.
- B.** Set out all materials needed.
 - 1. This written SDS Manual
 - 2. Visual aids (Located in Presentation Graphics, page 21)
 - 3. Employee Acknowledgement Form (Included on page 31)
 - 4. SDS for each hazardous chemical used in establishment
 - 5. List of each hazardous chemical used in establishment (Included on page 37)
- C.** Begin training class by following presentation script (see page 7).

2. KEEP RECORDS

- A.** Establish a Hazard Communication file that Includes:
 - 1. Signed, dated Employee Acknowledgement Form.
 - 2. List of hazardous chemicals.

3. UPDATE RECORDS AND RE-TRAIN EMPLOYEES

- A.** Be sure you have an SDS for every hazardous chemical in your inventory. If you need an SDS for a Ecolab product, call Customer Service at 800-35-CLEAN or 800-352-5326.
- B.** Review and replace SDSs when new hazardous chemicals are brought into the restaurant or when you receive an updated SDS.
- C.** Re-train each employee each time a new product is introduced.

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HAZARD COMMUNICATION SCRIPT

The following presentation script covers ONLY the components of the Workplace Hazardous Materials Information System required by law.

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Training Presentation Script - Section I

Every day, we come into contact with chemicals. We use toothpaste, soap and mouthwash. We fill our cars with gasoline and antifreeze. We even fertilize our plants. The truth is, modern life would be nearly impossible without chemicals.

However, as helpful as these chemicals are, if they're not used properly, they can cause injury or illness. The best way we can protect ourselves from the hazards of chemicals is to be sure we know how to use them correctly.

And that's what we're here to do today. We're going to show you how to safely use the chemicals in this restaurant. Today's presentation complies with the Workplace Hazardous Materials Information System and its associated regulations as administered by the Workplace Hazardous Materials Directorate.

To meet the requirements of WHMIS, your restaurant must have a training and education program that promotes safe handling and use of hazardous chemicals.

The training you will receive today includes three areas:

1. How to identify hazardous chemicals.
2. How to read and understand product warning labels and Safety Data Sheets (which we call SDSs) and where to locate SDSs.
3. How to properly handle and use the chemicals in this restaurant.

Let's look at the first area, which is how to identify hazardous chemicals. What is a hazardous chemical? It is a product, mixture, material or substance that is classified in accordance with the Hazardous Products Act and Regulations in a category or subcategory of a hazard class. However, the level of hazard varies dramatically. Some chemicals may only be irritating. Others may be very dangerous. We try to use cleaning chemicals that have minimal or no hazards. But, because the chemicals we use can be hazardous, it's important for you to be able to identify those hazards and know how they can affect you.

Chemical hazards fall into two categories: Physical hazards and health hazards.

A physical hazard is one that creates a hazardous situation outside the body. For example, if a chemical can cause a fire or explosion it is a physical hazard.

A health hazard, on the other hand, is a hazard that causes health damage. There are two types of health hazards: acute and chronic.

An acute health hazard does damage to your body in a short amount of time. For example, if you're washing dishes and you get dish detergent in your eyes, it immediately stings. Or, if you use a soap that irritates your skin, it could cause a rash.

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ECOLAB
Liquid CHAMP
 Detergent for Machine
 W/overwashing
 Détergent pour machine à
 laver la vaisselle
 Detergente para el lavado
 mecánico de vajilla

26444
 10000 (2000)

FOR INDUSTRIAL USE ONLY
 (SOLAMENTE PARA USO INDUSTRIAL)
 (SOLAMENTE PER USO INDUSTRIAL)

WARNING
 KEEP OUT OF REACH OF CHILDREN
 Attention

PRECAUTIONS
 Avoid contact with eyes. Wash hands thoroughly after use.
 Evitar el contacto con los ojos. Lavar las manos minuciosamente después del uso.
 Evitar el contacto con los ojos. Lavar las manos minuciosamente después del uso.

HAZARD STATEMENTS
 Causes serious eye irritation.
 Provoca irritación grave a los ojos.
 Provoca irritación grave a los ojos.

Signal word
 Warning

Symbol

Hazard statements
 Causes serious eye irritation.

Precautionary statements
 Avoid contact with eyes. Wash hands thoroughly after use.
 Evitar el contacto con los ojos. Lavar las manos minuciosamente después del uso.
 Evitar el contacto con los ojos. Lavar las manos minuciosamente después del uso.

Response
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If eye irritation persists, Get medical attention.

Storage
 Not applicable.

Disposal
 See section 13 for waste disposal information.

Other hazards
 None known.

Product name
 LIQUID CHAMP

Product use and restrictions
 Machine W/overwashing Detergent
 Use only for the purpose on the product label.

Product dilution information
 Up to 1.0% in water.

Supplier's information
 Ecolab Inc.
 370 N. Washington Street
 St. Paul, MN 55102 USA

Code
 912492

Date of issue
 19 Feb 2013
 EMERGENCY HEALTH INFORMATION: 1-800-328-0128
 Canadian Union States and Canada CALL 1-877-222-5392 (in USA)

Product AS SOLD
 LIQUID CHAMP

GHS Classification
 : SERIOUS EYE DAMAGE/ IRRITATION - Category 2A

Product AT USE DILUTION
 Not classified.

Signal word
 No signal word.

No known significant effects or critical hazards
 No known significant effects or critical hazards.

Wash thoroughly after handling.
 Wash thoroughly after handling.

Get medical attention if symptoms appear.
 Get medical attention if symptoms appear.

Not applicable.
 Not applicable.

None known.
 None known.

Page: 1/6

A chronic health hazard affects the body slowly. For instance, breathing in gasoline fumes on a daily basis can cause lung cancer. Or, as many of us have heard before, breathing cigarette smoke can cause lung cancer.

To be sure you know what kind of potential hazards exist, the Hazard Communication Standard requires all chemical manufacturers and suppliers to clearly identify hazards in two ways:

- First, on the warning label attached to each container of the chemical, and
- Second, on the SDS that is supplied by the manufacturer.

Chemical manufacturers and suppliers, however, aren't the only ones with a responsibility. We, as an employer, and you, as employees, also have responsibilities. As employers, we are responsible for:

- Letting you know which chemicals are considered hazardous in our restaurant,
- Making sure that all chemical containers have the appropriate labelling,
- Having a current SDS for each hazardous chemical,
- Providing all the protective equipment necessary for proper safety, and
- Providing the training you need to know how to handle hazardous chemicals safely.

SAFETY DATA SHEET
 LIQUID CHAMP

Section 1. Chemical product and company identification

Product name
 LIQUID CHAMP

Recommended use and restrictions
 Machine W/overwashing Detergent
 Use only for the purpose on the product label.

Product dilution information
 Up to 1.0% in water.

Supplier's information
 Ecolab Inc.
 370 N. Washington Street
 St. Paul, MN 55102 USA

Code
 912492

Date of issue
 19 Feb 2013
 EMERGENCY HEALTH INFORMATION: 1-800-328-0128
 Canadian Union States and Canada CALL 1-877-222-5392 (in USA)

Section 2. Hazards identification

Product AS SOLD
 LIQUID CHAMP

GHS Classification
 : SERIOUS EYE DAMAGE/ IRRITATION - Category 2A

Product AT USE DILUTION
 Not classified.

Signal word
 Warning

No known significant effects or critical hazards
 No known significant effects or critical hazards.

Wash thoroughly after handling.
 Wash thoroughly after handling.

Get medical attention if symptoms appear.
 Get medical attention if symptoms appear.

Not applicable.
 Not applicable.

None known.
 None known.

Page: 1/6

Graphic 2

Distribute or show Graphics 1 and 2, located in Presentation Graphics.

EMPLOYER PROVIDES:

- List of hazardous materials
- Appropriate labelling for chemical containers
- Current SDS for each hazardous chemical
- Protective equipment, if necessary
- Safety training

Point to this section of Graphic 3.

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EMPLOYEE SHOULD:

- Read and follow instructions on labels and SDSs
- Use protective equipment when recommended
- Follow safe work practices as trained

Point to this section of Graphic 3.

In turn, you need to fulfill your part of the responsibility.

It's up to you to follow the precautions necessary to protect yourself. To do that you should:

- Read, understand, and follow all instructions on warning labels and SDSs,
- Always use protective equipment when it's recommended, and
- Follow the safe work practices we learn about in training.

Before we move on to the second area, let's look at a few of the more common terms you might have heard before or seen on product labels.

First, an **irritant** is a substance that causes temporary eye, skin or respiratory reactions, such as minor stinging, itching or tearing.

The second term is corrosive. **Corrosive** means that a substance causes burns or permanent damage to human tissue, such as skin and eyes, upon contact.

Third is toxic. A **toxic** substance is one that can cause disease or immediate or long-term injury to the body in certain conditions. The fourth term is **flammable**. A flammable substance is one that catches fire easily and burns quickly. And finally, **carcinogenic** means that a substance is capable of causing cancer.

Now, don't let these terms concern you. Just because we've defined these words does NOT necessarily mean you will come in contact with chemicals that have these types of hazards. A little later on we'll go over each chemical and let you know exactly what you're working with.

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How to read and understand Product warning labels and SDSs

All containers of hazardous chemicals must have labels. These labels are designed to provide us:

- The name of the chemical,
- Any physical and health hazards the chemical may have, and
- The name, address and phone number of a responsible source of information about the product.

Here's a sample label. This label shows us all the warning information we need.

The name of our sample chemical is Ecolab® Liquid Champ®. According to this label, it's used as a detergent for machine washing.

Any physical or health hazards associated with Ecolab® Liquid Champ® are listed on the label. It says "Warning: Causes serious eye irritation."

First aid information is also on the label. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Also on this label, the manufacturer, Ecolab, provides their name, address, and phone number. And, there is a 24-hour emergency number listed below the first aid.

ECOLAB
Liquid CHAMP
 Detergent for Machine Warewashing
 Détergent pour machine à laver la vaisselle
 Detergente para el lavado mecánico de vajilla
 26444
 1-854-0300

CONSERVAR FUERA DEL ALCANCE DE LOS NIÑOS
Attention
 Prevenir que niños utilicen este químico.
 Keep out of reach of children.
 Warning: Causes serious eye irritation.
 After use or in case of spillage, wash hands thoroughly after handling.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, Get medical attention.
READ SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT.
EMERGENCY HEALTH INFORMATION:
 1-800-525-5253. In Canada, contact the National Poison and Control, toll-free at 1-877-327-3332 (toll-free in the US).
 Ecolab Co.

LEA LA HOJA DE INFORMACIÓN DE SEGURIDAD ANTES DE USAR EL PRODUCTO
INFORMACIÓN DE EMERGENCIAS SOBRE SALUD:
 1-800-525-5253. En Canadá, comuníquese con el Centro Nacional de Información sobre el Veneno y el Control de Venenos, al número gratuito 1-877-327-3332 (gratuito en los EE.UU.).
 Ecolab, 371 Wabasha Street St. Paul MN 55102-1000 USA. Tel: 1-800-525-5253 (24/7 SDS)
 5253, Toronto, Ontario, M5H 1S5 Canada. Tel: 1-800-525-5253 (24/7 SDS)
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 www.ecolab.com - 7526740003

Show Graphic 1 again. Point to different areas on the label as you go over them.

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SAFETY DATA SHEET		ECOLAB
LIQUID CHAMP		
Section 1. Chemical product and company identification		
Product name	: LIQUID CHAMP	
Recommended use and restrictions	: Machine Warewashing Detergent Use only for the purpose on the product label.	
Product dilution information	: Up to 1.0% in water	
Supplier's information	: Ecolab, Inc. 370 N. Washburn Street St. Paul, MN 55102	
Code	: 912492	
Date of issue	: 19 Feb 2013 EMERGENCY HEALTH INFORMATION: 1-800-328-0028 Outside United States and Canada CALL: 1-651-222-5302 (in USA)	
Section 2. Hazards identification		
GHS Classification	Product AS SOLD : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Product AT USE DILUTION : Not classified.
GHS label statements		
Signal word	: Warning	
Symbol	: No signal word.	
Hazard statements	: Causes serious eye irritation.	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.	Wash thoroughly after handling. Get medical attention if symptoms appear.
Response	: Not applicable.	Not applicable.
Storage	: See section 13 for waste disposal information.	Not applicable.
Disposal	: None known.	None known.
Other hazards		
Page: 1/6		

Show Graphic 2 again.

Point to areas on the SDS as you go over them.

SAFETY DATA SHEET		ECOLAB
LIQUID CHAMP		
Section 1. Chemical product and company identification		
Product name	: LIQUID CHAMP	
Recommended use and restrictions	: Machine Warewashing Detergent Use only for the purpose on the product label.	
Product dilution information	: Up to 1.0% in water	
Supplier's information	: Ecolab, Inc. 370 N. Washburn Street St. Paul, MN 55102	
Code	: 912492	
Date of issue	: 19 Feb 2013 EMERGENCY HEALTH INFORMATION: 1-800-328-0028 Outside United States and Canada CALL: 1-651-222-5302 (in USA)	
Section 2. Hazards identification		
GHS Classification	Product AS SOLD : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Product AT USE DILUTION : Not classified.
GHS label statements		
Signal word	: Warning	
Symbol	: No signal word.	
Hazard statements	: Causes serious eye irritation.	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.	Wash thoroughly after handling. Get medical attention if symptoms appear.
Response	: Not applicable.	Not applicable.
Storage	: See section 13 for waste disposal information.	Not applicable.
Disposal	: None known.	None known.
Other hazards		
Page: 1/6		

How to read and understand SAFETY DATA SHEETS

If you ever need to know more about a product's potential hazards than what's provided on the label, you can check the Safety Data Sheet which, remember, we call an SDS.

SDSs contain detailed health and safety information on hazardous chemicals.

They list the precautions you need to take when handling a particular chemical as well as detailed emergency and first aid procedures in case of an accident.


The SDSs are available for you to review at any time. Our SDSs are located _____ (indicate where located in store). You are welcome to request to see them and ask questions about them.

Here's a sample SDS. Let's take a look at it and go over the important elements of it.

SDSs must provide you certain information. They must list:

- Chemical identification,
- Name, address and telephone number of the manufacturer and the date the SDS was prepared,
- Physical and chemical characteristics,
- Physical hazards,
- Health hazards,
- Primary routes of entry into the body,
- Permissible exposure limits,
- Indications of carcinogenicity, if any,
- Precautions for safe handling,
- Cleanup measures for spills and leaks,
- Control measures, and
- Emergency first aid procedures.

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SAFETY DATA SHEET		ECOLAB
LIQUID CHAMP		
Section 1. Chemical product and company identification		
Product name	: LIQUID CHAMP	
Recommended use and restrictions	: Machine Warewashing Detergent	
Use only for the purpose on the product label.		
Product dilution information	: Up to 1.0% in water	
Supplier's information	: Ecolab Inc. 370 N. Wabasha Street St. Paul, MN 55102	
Code	: 912492	
Date of issue	: 19 Feb 2013	
EMERGENCY HEALTH INFORMATION: 1-800-328-0026 Outside United States and Canada CALL 1-651-222-6352 (in USA)		
Section 2. Hazards identification		
GHS Classification	Product AS SOLD : SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Product AT USE DILUTION : Not classified.
GHS label elements		
Signal word	: Warning	
Symbol	: 	
Hazard statements	: Causes serious eye irritation.	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling.	Wash thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.	Get medical attention if symptoms appear.
Storage	: Not applicable.	Not applicable.
Disposal	: See section 13 for waste disposal information.	Not applicable.
Other hazards	: None known.	
Page: 1/6		

These terms sound difficult and confusing, but we're going to look at each one so you can see how SDSs protect you.

The layout and design of an SDS is prescribed by WHMIS 2015. For today's review we will use an SDS from Ecolab.

If you look on your SDS handout, **Section I** provides identification information. The common name and the chemical name of the material will be listed here. Let me give you an example of a chemical's identification. NaCl is a chemical, and salt is its common name. The chemical name for salt is sodium chloride. If the chemical name is the trade secret, the manufacturer does not have to list it here, but they are still required to provide this information to a qualified health professional in a medical emergency.

The identification section also include the name and address of the chemical manufacturer, emergency phone numbers, and the date the form was written or last updated.

Section 2 identifies any hazards, label elements, and precautionary statements. Refer to page 18 for examples of WHMIS 2015 Pictograms & Hazard Classes.

Section 3 provides the composition and/or information on the ingredients.

In **Section 4** you'll find first aid information. This section provides emergency and first aid procedures in the event of exposure.

Fire fighting measures are provided in **Section 5**. This section explains the best way to put out a fire involving that chemical.

Point to specific areas on the SDS as you go over them.

LIQUID CHAMP	19 Feb 2013
Section 3. Composition/information on ingredients	
Substance/mixture	: Mixture
Product AS SOLD	
Hazardous ingredients	Concentration Range (%) CAS number
SODIUM CARBONATE	5 - 20 497-19-8
POTASSIUM CARBONATE	5 - 20 584-08-7
TRISODIUM EDTA	1 - 5 150-39-9
Product AT USE DILUTION	
Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.	
Section 4. First aid measures	
Eye contact	Product AS SOLD : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Skin contact	Product AS SOLD : No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	Product AS SOLD : No special measures required. Treat symptomatically.
Ingestion	Product AS SOLD : Get medical attention if symptoms occur.
Protection of first-aiders	Product AS SOLD : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Notes to physician	Product AS SOLD : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
See toxicological information (section 11)	
Section 5. Fire-fighting measures	
Product AS SOLD	
Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Specific fire-fighting methods	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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LIQUID CHAMP		19 Feb 2013
Section 6. Accidental release measures		
Personal precautions	Product AS SOLD : Use personal protective equipment as required.	Product AT USE DILUTION Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.
Section 7. Handling and storage		
Handling	Product AS SOLD : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.	Product AT USE DILUTION Wash thoroughly after handling.
Storage	: Keep out of reach of children. Store between the following temperatures: 0 and 50°C	Keep out of reach of children.
Section 8. Exposure controls/personal protection		
Control parameters		
Ingredient name	Exposure limits	
None.		
Appropriate engineering controls	Product AS SOLD : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Product AT USE DILUTION Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eye protection	: Wear eye protection.	No protective equipment is needed under normal use conditions.
Hand protection	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Skin protection	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	
Section 9. Physical and chemical properties		
Physical state	Product AS SOLD : Liquid.	Product AT USE DILUTION Liquid.
Color	: Yellowish [Light]	Colorless
Odor	: Acrylic	Odorless
pH	: 10.25 to 11 (100%)	10.2 to 10.6
Flash point	: >300 °C (Closed cup) Product does not support combustion.	> 100°C
Explosion limits	: Not available.	
Page: 3/6		

Section 6 covers accidental release measures. Here you will find information on personal and environmental precautions as well as proper methods of containment and cleanup.

Precautions for safety handling and storage are covered in **Section 7**.

LIQUID CHAMP		19 Feb 2013
Section 6. Accidental release measures		
Personal precautions	Product AS SOLD : Use personal protective equipment as required.	Product AT USE DILUTION Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.
Section 7. Handling and storage		
Handling	Product AS SOLD : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.	Product AT USE DILUTION Wash thoroughly after handling.
Storage	: Keep out of reach of children. Store between the following temperatures: 0 and 50°C	Keep out of reach of children.
Section 8. Exposure controls/personal protection		
Control parameters		
Ingredient name	Exposure limits	
None.		
Appropriate engineering controls	Product AS SOLD : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Product AT USE DILUTION Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eye protection	: Wear eye protection.	No protective equipment is needed under normal use conditions.
Hand protection	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Skin protection	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	
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Odor	: Acrylic	Odorless
pH	: 10.25 to 11 (100%)	10.2 to 10.6
Flash point	: >300 °C (Closed cup) Product does not support combustion.	> 100°C
Explosion limits	: Not available.	
Page: 3/6		

In **Section 8** the SDS lists special protection information. In this section you can find what types of protective clothing or equipment, if any, you may need when handling the product. The section also lists safe exposure limits.

In **Section 9** physical and chemical properties are listed. In other words, this section describes how the chemical looks, how it smells, and how it behaves.

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LIQUID CHAMP 19 Feb 2013

Section 9. Physical and chemical properties

Flammability (solid, gas) : Not available.

Melting point : Not available.

Boiling point : >100°C (>212°F)

Evaporation rate (butyl acetate = 1) : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1.25 to 1.27 (Water = 1)

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: : Not available.

n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Odor threshold : Not available.

Viscosity : Not available.

Section 10. Stability and reactivity

Product AS SOLD

Stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Materials to avoid : Highly reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: metals.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Product AS SOLD	Product AT USE DILUTION
<p>Symptoms</p> <p>Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness.</p> <p>Skin contact : No specific data.</p> <p>Inhalation : No specific data.</p> <p>Ingestion : No specific data.</p> <p>Acute toxicity</p> <p>Eye contact : Causes serious eye irritation.</p> <p>Skin contact : No known significant effects or critical hazards.</p> <p>Inhalation : No known significant effects or critical hazards.</p> <p>Ingestion :</p>	<p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>

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Section 10 describes the stability and reactivity of the material.

Section 11 provides toxicological information.

LIQUID CHAMP 19 Feb 2013

Section 11. Toxicological information

No known significant effects or critical hazards.

Toxicity data

Product/ingredient name	Result	Species	Dose
sodium carbonate	LC50 Inhalation Dusts and mists	Rat	1.15 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
potassium carbonate	LD50 Oral	Rat	2800 mg/kg
	LC50 Inhalation Dusts and mists	Rat	>5.26 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
LD50 Oral	Rat	1870 mg/kg	

Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium carbonate	Acute EC50 200 mg/l	Daphnia	48 hours
potassium carbonate	Acute LC50 230 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product AS SOLD	Product AT USE DILUTION
Disposal methods : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : UN3266

IMO/IMDG Proper shipping name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide)

Class : 8

Packing group : III

For transport in bulk, see shipping documents for specific transportation information.

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Sections 12 and 13 describe ecological (environmental) considerations and waste disposal.

Section 14 provides transportation information.

Safety Data Sheets Manual



LIQUID CHAMP 19 Feb 2013

Section 14. Transport information

Product AT USE DILUTION
Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No listed substance
SARA 302/304 emergency planning and notification: No listed substance

SARA 313	Product name	CAS number	Concentration
Form R - Reporting requirements			
California Prop. 65			

California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.)

Health	1	0
Flammability	0	0
Instability/Reactivity	0	0
Special		

Date of issue : 19 Feb 2013
Prepared by : Regulatory Affairs
1-800-352-5326

Notice to reader
The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

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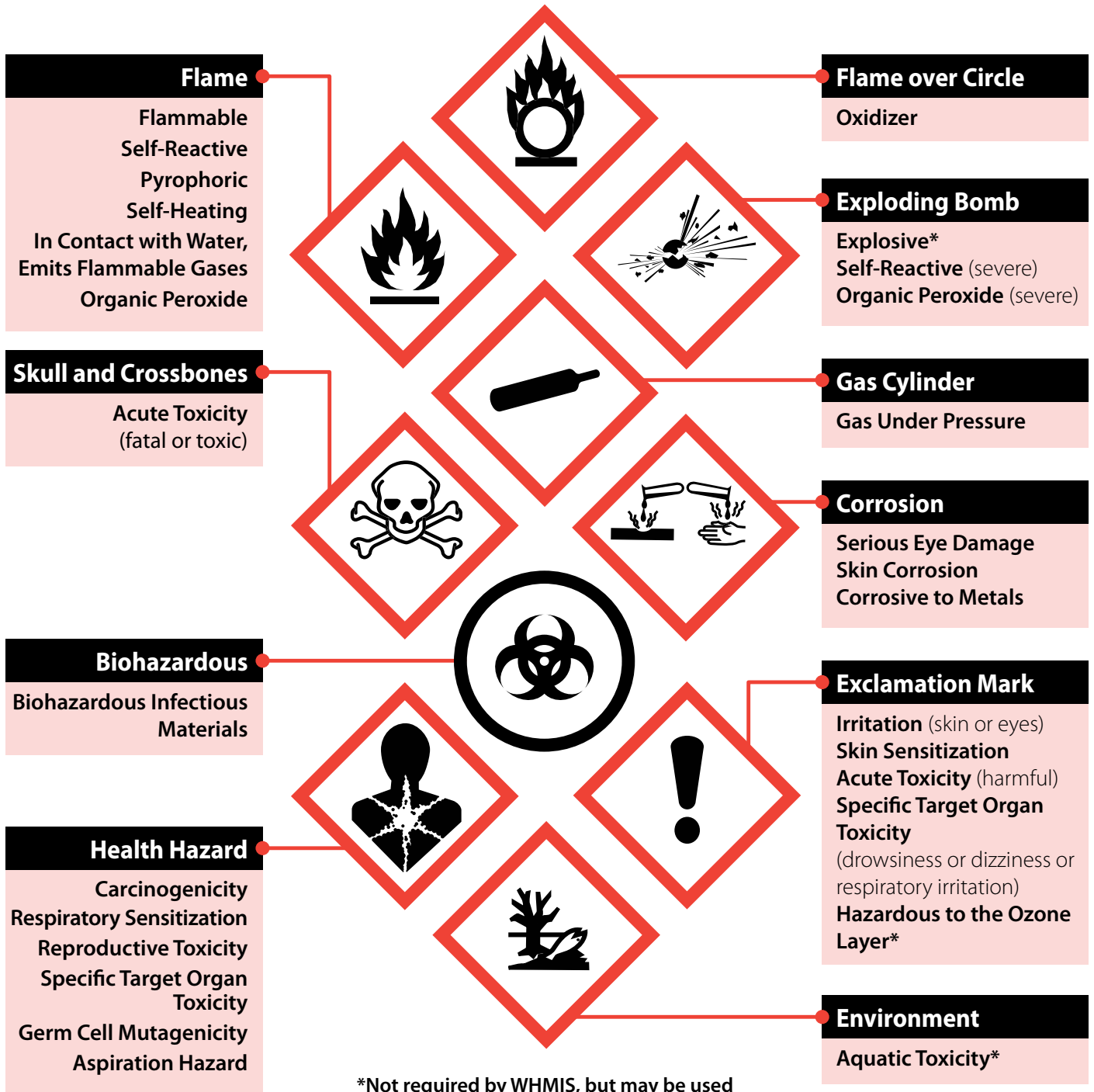
Section 15 lists all other the regulatory information about the material.

Section 16 provides the date of preparation or last revision as well as any additional information that the manufacturer wishes to provide.

SDSs provide us a lot of information, and it's important that you know how to use them.

Safety Data Sheets Manual

WHMIS 2015 Pictograms



Safety Data Sheets Manual



Training Presentation Script - Section II

Ecolab® Branded Products

IMPORTANT

SECTION II OF THIS PRESENTATION FULFILLS YOUR HAZARD COMMUNICATION TRAINING FOR ONLY ECOLAB BRANDED PRODUCTS.

Please note that the following chemical training presentation is designed to be used ONLY with Ecolab branded products.

If you have products from other manufacturers that are considered hazardous, you must also include them in your WHMIS training. Please verify that these products are appropriately labelled and that an SDS for them is included in the program.

Now that we have reviewed the basics to identifying hazardous chemicals, reading product labels and SDSs, we will go over these items in detail for each hazardous chemical in our restaurant.

Remember, you are welcome to review our written program at any time and ask questions about it.

Our written program is kept in this binder, and we keep it in the _____
(Indicate where located in store). In it you can find:

- a list of all the hazardous chemicals in this restaurant,
- SDSs for all hazardous chemicals, labels and health and safety practices.

Do you have any questions about anything we've discussed?

Let's start the third area of this training which is how to properly handle and use the chemicals we use in our location. After we go over all the products, we have a form for you to sign that simply says you received all your training.

Safety Data Sheets Manual



**This section is completed for sample purposes. Fill in the blanks as the label dictates. Each product may be a little different. Hold up each chemical as you discuss it. Refer to the SDS and point to an area as necessary.*

Be sure you review the following items:

- Product name
- Product application
- Health/physical hazards
- First aid
- Special precautions, if any

Continue in the same manner, filling in the necessary information until all Ecolab® branded products are discussed.

Be sure to check the special precautions section on each SDS.

When you have finished reviewing all Ecolab products and their SDSs, close the training session and have each employee sign and date the Training Log.

Let's start looking at each product. This is Ecolab® Liquid Champ®. It is a ready-to-use machine warewashing detergent. It says on the label that it causes serious eye irritation. The first aid information is also provided on the label. If you get this product in your eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. SKIN: No known effect after skin contact. Rinse with water for a few minutes. INHALATION: No special measures required. Treat symptomatically. INGESTION: Get medical attention if symptoms occur.

The SDS also provides this safety information as well as other precautions. For Liquid Champ® there are no special precautions. However, other products may have special mixing or storage instructions.

Does anyone have any questions about any of these products? Now, I'm going to pass around a Training Log. This confirms that you received your training. Please read the statement carefully, then write today's date in the left column, print your name in the middle column, and sign your name in the right column.

Remember, if you're not sure about how to use a product, or how to protect yourselves from any potential hazards, read the label or look at the SDS. Our SDS Manual is kept in _____ (indicate where located in store), and SDSs which are available to you upon request, are located _____ (indicate where located in store). If you need more information or you don't understand something, ask me. I'm always available to answer your questions. Thanks for your attention during this training. We know with your help we can have a safe work environment.

Safety Data Sheets Manual



PRESENTATION GRAPHICS

Safety Data Sheets Manual






Liquid CHAMP[®]

Detergent for Machine Warewashing

Détergent pour machine à laver la vaisselle

Detergente para el lavado mecánico de vajilla

26444
1 US GAL (3.78 L)



Consulter votre représentant Ecolab pour des instructions spécifiques d'utilisation et pour connaître les équipements de dosage particuliers recommandés.

PARA USO INDUSTRIAL SOLAMENTE

INSTRUCCIONES DE USO: 1. Quite el recipiente vacío de detergente; reemplácelo con un recipiente lleno. Transfiera el tubo tomavistas al nuevo recipiente. Si es necesario, ceda el dispensador. 2. Raspe o enjuague todas las partículas sueltas de comida de los artículos antes de ponerlos en el lavavajillas. 3. Preenjuague los utensilios que tengan desperdicios de alimentos secos y pegados en un solución caliente de detergente multiusos. 4. Descarte todos los artículos que normalmente se desarmen antes de lavarlos. Enjuáguelos si es necesario. 5. Ponga los artículos pequeños en el cesto para piezas pequeñas. 6. No sobrecargue las rejillas. Lave sólo una rejilla de utensilios a la vez.

PRECAUCIONES: 1. Use el detergente sólo para el propósito previsto en equipos de lavadora automática de vajillas en buen funcionamiento. NO lo diluya. 2. Limpie cualquier derrame de producto; enjuague bien. 3. Guarde el producto bien en un lugar seco. 4. Enjuague y elimine cuidadosamente el recipiente vacío. NO lo vuelva a usar. **Consulte con su Representante de ECOLAB para obtener instrucciones específicas sobre el uso y el equipo dispensador recomendado.**

FOR INDUSTRIAL USE ONLY

DIRECTIONS FOR USE: 1. Remove empty detergent container; replace with full container. Transfer pick-up tube to the new container. If necessary, prime the dispenser. 2. Scrape or rinse all loose food particles from items before placing in the dishwasher. 3. Pre-soak utensils with dried-on food soils in a hot solution of a multipurpose detergent. 4. Dismantle items which are normally taken apart before washing. Rinse them if necessary. 5. Put small items in the small parts basket. 6. Do not overload racks. Wash only one rack of utensils at a time.

PRECAUTIONS: 1. Use only for intended purpose in property operating automatic dishwashing equipment. Do NOT dilute. 2. Wipe up any product spills and rinse thoroughly. 3. Store product securely and safely in a dry area. 4. Carefully meet and dispose of empty container. Do NOT reuse.

Consult your Ecolab representative for specific use instructions and recommended dispensing equipment.

POUR USAGE INDUSTRIEL SEULEMENT

MODE D'EMPLOI: 1. Retirer le contenant de détergent vide et le remplacer par un contenant plein. Transférer le tube plongeur dans le nouveau contenant. Amortir le distributeur, s'il y a lieu. 2. Gratter ou rincer la vaisselle et autres articles de toutes les particules d'aliments séchés avant de les placer dans le lave-vaisselle. 3. Prétrempier les ustensiles qui comportent de la saleté séchée dans une solution chaude d'un détergent tout usage. 4. Démontez les articles qui sont normalement démontés avant un lavage. Les rincer au besoin. 5. Placer les petits articles dans le panier à petits morceaux. 6. Ne pas surcharger les paniers. Ne laver qu'un panier d'ustensiles à la fois.

PRECAUTIONS: 1. Utiliser seulement aux fins prévues dans de l'équipement à laver la vaisselle qui fonctionne correctement. Ne PAS diluer. 2. Essuyer tout déversement de produit et rincer à fond. 3. Entreposer le produit d'une manière sûre et sécuritaire dans un endroit sec. 4. Bien rincer le contenant vide, puis le jeter. Ne PAS réutiliser.

Formula ingredients contain no phosphorus.
Les ingrédients de ce produit ne contiennent pas de phosphore.
Los ingredientes de la fórmula no contienen fósforo.

Contains | Contient | Contiene: water, 732-98-5; sodium carbonate, 584-08-7; trisodium EDTA, 154-38-5; sodium citrate, 18356-35-5.

Ecolab - 370 Wabasha Street N. - St. Paul MN 55102-1390 USA - tel: 1 800 35 CLEAN (352 5326)
5105 Tomken Road - Mississauga ON L4W 2X5 Canada - tel: 1 866 781 8787
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Made in United States | Fabricado aux États-Unis | Hecho en Estados Unidos
www.ecolab.com - 7172610/9402/0213

Liquid CHAMP

KEEP OUT OF REACH OF CHILDREN

Warning

Causes serious eye irritation. Wear eye or face protection. Wash hands thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

READ SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT

EMERGENCY HEALTH INFORMATION: 1 800 328 0026. If located outside the United States and Canada, call collect 1 651 222 5352 (number is in the US).

Ecolab Co

CONSERVER HORS DE LA PORTÉE DES ENFANTS

Attention

Provoque une sévère irritation des yeux. Porter une protection oculaire ou faciale. Se laver les mains soigneusement après manipulation.

EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer. Si l'irritation oculaire persiste: Obtenir des soins médicaux.

LIRE LA FICHE SIGNALÉTIQUE AVANT D'UTILISER CE PRODUIT

INFORMATION DE SANTÉ D'URGENCE: 1 800 328 0026. Si à l'extérieur des États-Unis et du Canada, appelez à frais virés le 1 651 222 5352 (numéro aux États-Unis).

MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS

Atención

Provoca irritación ocular grave. Usar protección para los ojos o la cara. Lavarse cuidadosamente las manos después de la manipulación.

EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto, cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado. Si la irritación ocular persiste: Buscar atención médica.

LEA LA HOJA DE INFORMACIÓN DE SEGURIDAD ANTES DE USAR EL PRODUCTO

INFORMACIÓN DE EMERGENCIA SOBRE SALUD: 1 800 328 0026. Si está fuera de los Estados Unidos y Canadá, llame a cubro revertido al 1 651 222 5352 (número en los EE.UU.).

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Graphic 2

SAFETY DATA SHEET **ECOLAB**
LIQUID CHAMP


Section 1. Chemical product and company identification

Product name : LIQUID CHAMP
 Recommended use and restrictions : Machine Warewashing Detergent
 Use only for the purpose on the product label.

Product dilution information : Up to 1.0% in water

Supplier's information : Ecolab Inc.
 370 N. Wabasha Street
 St. Paul, MN 55102
 Code : 912492
 Date of issue : 19 Feb 2013
 EMERGENCY HEALTH INFORMATION: 1-800-328-0026
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification Product AS SOLD : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Product AT USE DILUTION Not classified.
GHS label elements Signal word : Warning Symbol : 	No signal word.
Hazard statements : Causes serious eye irritation.	No known significant effects or critical hazards.
Precautionary statements Prevention : Wear eye or face protection. Wash hands thoroughly after handling. Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, Get medical attention. Storage : Not applicable. Disposal : See section 13 for waste disposal information. Other hazards : None known.	Wash thoroughly after handling. Get medical attention if symptoms appear. Not applicable. Not applicable. None known.

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LIQUID CHAMP 19 Feb 2013

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM CARBONATE	5 - 20	497-19-8
POTASSIUM CARBONATE	5 - 20	584-08-7
TRISODIUM EDTA	1 - 5	150-38-9

Product AT USE DILUTION
 Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	Product AT USE DILUTION No known effect after eye contact. Rinse with water for a few minutes.
Skin contact : No known effect after skin contact. Rinse with water for a few minutes.	Product AT USE DILUTION No known effect after skin contact. Rinse with water for a few minutes.
Inhalation : No special measures required. Treat symptomatically.	Product AT USE DILUTION No special measures required. Treat symptomatically.
Ingestion : Get medical attention if symptoms occur.	Product AT USE DILUTION Get medical attention if symptoms occur.

Protection of first-aiders
: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician
: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD
 Suitable fire extinguishing media : Use water spray, fog or foam.
 Specific hazards arising from the chemical decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxides/oxides.

Product AT USE DILUTION
 Specific fire-fighting methods : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
 Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

Personal precautions : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.	Product AS SOLD : Use personal protective equipment as required.	Product AT USE DILUTION : Use personal protective equipment as required.
Environmental precautions : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Product AS SOLD : Use a water rinse for final clean-up.	Product AT USE DILUTION : Use a water rinse for final clean-up.

Section 7. Handling and storage

Handling : Keep out of reach of children.	Product AS SOLD : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.	Product AT USE DILUTION : Wash thoroughly after handling. Keep out of reach of children.
Storage : Store between the following temperatures: 0 and 50°C		

Section 8. Exposure controls/personal protection

Control parameters	Exposure limits
Ingredient name	
None	
Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Product AS SOLD : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection Eye protection : Wear eye protection.	Product AT USE DILUTION : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Hand protection : No protective equipment is needed under normal use conditions.	Product AT USE DILUTION : No protective equipment is needed under normal use conditions.
Skin protection : No protective equipment is needed under normal use conditions.	Product AT USE DILUTION : No protective equipment is needed under normal use conditions.
Respiratory protection : A respirator is not needed under normal and intended conditions of product use.	Product AT USE DILUTION : A respirator is not needed under normal and intended conditions of product use.
Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	Product AT USE DILUTION : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Section 9. Physical and chemical properties

Physical state : Liquid.	Product AS SOLD : Liquid.	Product AT USE DILUTION : Liquid.
Color : Colorless	Product AS SOLD : Yellowish [Light]	Product AT USE DILUTION : Colorless
Odor : Acrylic	Product AS SOLD : < 10.25 to 11 (100%)	Product AT USE DILUTION : 10.2 to 10.6
Flash point : >300 °C (Closed cup) Product does not support combustion.	Product AS SOLD : Not available.	Product AT USE DILUTION : > 100°C
Explosion limits : Not available.		

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Section 9. Physical and chemical properties

Flammability (pool, gas) : Not available.

Melting point : Not available.
 Boiling point : >100°C (>212°F)
 Evaporation rate : Not available.
 (Boylé constant = 1)
 Vapor pressure : Not available.
 Vapor density : Not available.
 Relative density : 1.25 to 1.27 (Water = 1)
 Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water : Not available.
 Auto-ignition : Not available.
 Temperature : Not available.
 Decomposition : Not available.
 Temperature : Not available.
 Odor threshold : Not available.
 Viscosity : Not available.

Section 10. Stability and reactivity

Product AS SOLD
 Stability : The product is stable.
 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
 Conditions to avoid : No specific data.
 Materials to avoid : Highly reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: metals.
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Product AT USE DILUTION
 Stability : The product is stable.
 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
 Conditions to avoid : No specific data.
 Materials to avoid : Highly reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: metals.
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Symptoms Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness. Skin contact : No specific data. Inhalation : No specific data. Ingestion : No specific data.	Product AS SOLD : No specific data. Product AT USE DILUTION : No specific data.
Acute toxicity Eye contact : Causes serious eye irritation. Skin contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.	Product AS SOLD : No known significant effects or critical hazards. Product AT USE DILUTION : No known significant effects or critical hazards.

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Section 11. Toxicological information

No known significant effects or critical hazards.

Toxicity data

Product/ingredient name	Result	Species	Dose
sodium carbonate	LC50 Inhalation Dusts and mists	Rat	1.15 mg/l
potassium carbonate	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	2000 mg/kg
	LC50 Inhalation Dusts and mists	Rat	<= 26 mg/l
	LD50 Oral	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1870 mg/kg

Chronic toxicity
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD
 Ecotoxicity : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium carbonate	Acute EC50 200 mg/l	Daphnia	48 hours
potassium carbonate	Acute LC50 200 mg/l	Fish	96 hours

Other adverse effects
: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.	Product AS SOLD : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
	Product AT USE DILUTION : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT Classification : Not regulated.

IMO/IMDG
 IMO/IMDG Classification : UN1268
 IMO/IMDG Proper shipping name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide)
 Class : 8
 Packing group : III
 For transport in bulk, see shipping documents for specific transportation information.

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Section 14. Transport information

Product AT USE DILUTION
 Not intended for transport.

Section 15. Regulatory information

Product AS SOLD
 U.S. Federal regulations
 TSCA 8(b) inventory : All components are listed or exempted.
 SARA 302/304/311/312 extremely hazardous substances: No listed substance
 SARA 302/304 emergency planning and notification: No listed substance
 SARA 311 : Product name : CAS number : Concentration :
 Form R - Reporting : No listed substance requirements
 California Prop. 65 : No listed substance

Section 16. Other information

Health 0	Flammability 0	Instability/Reactivity 0
Physical hazards 0	Flammability 0	Instability/Reactivity 0

National Fire Protection Association (U.S.A.)

Health 0	Flammability 0	Instability/Reactivity 0
Special 0	Special 0	Special 0

Date of issue : 19 Feb 2013
 Prepared by : Regulatory Affairs
 1-800-352-5328

Notes to reader
 The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

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Graphic 3

EMPLOYER PROVIDES:

- List of hazardous chemicals
- Current SDS for each hazardous chemical
- Protective equipment, if necessary
- Safety training

EMPLOYEE SHOULD:

- Read and follow instructions on labels and SDSs
- Use protective equipment when recommended
- Follow safe work practices as trained

Safety Data Sheets Manual



FORMS

- Employee Acknowledgement Form
- Hazardous Chemical List
- Non-Routine Tasks
- Contractor Acknowledgement Form

Safety Data Sheets Manual



Employee Acknowledgement Form

When you sign this form, you are confirming that you have been trained about: **(1)** how to identify hazardous chemicals, **(2)** how to read and understand product warning labels and SDSs and where SDSs are located, and **(3)** how to properly handle and use the chemicals you are exposed to. You are also confirming that you know the Safety Data Sheet Manual and SDSs are available for reading and referencing at any time. If you have any questions about this, have your manager answer them before signing this form.

DATE	PRINT EMPLOYEE NAME	EMPLOYEE SIGNATURE

Safety Data Sheets Manual



Employee Acknowledgement Form

DATE	PRINT EMPLOYEE NAME	EMPLOYEE SIGNATURE

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Safety Data Sheets Manual



Employee Acknowledgement Form

When you sign this form, you are confirming that you have been trained about: (1) how to identify hazardous chemicals, (2) how to read and understand product warning labels and SDSs and where SDSs are located, and (3) how to properly handle and use the chemicals you are exposed to. You are also confirming that you know the Safety Data Sheet Manual and SDSs are available for reading and referencing at any time. If you have any questions about this, have your manager answer them before signing this form.

DATE	PRINT EMPLOYEE NAME	EMPLOYEE SIGNATURE

Safety Data Sheets Manual



Employee Acknowledgement Form

When you sign this form, you are confirming that you have been trained about: **(1)** how to identify hazardous chemicals, **(2)** how to read and understand product warning labels and SDSs and where SDSs are located, and **(3)** how to properly handle and use the chemicals you are exposed to. You are also confirming that you know the Safety Data Sheet Manual and SDSs are available for reading and referencing at any time. If you have any questions about this, have your manager answer them before signing this form.

DATE	PRINT EMPLOYEE NAME	EMPLOYEE SIGNATURE

Safety Data Sheets Manual



Employee Acknowledgement Form

DATE	PRINT EMPLOYEE NAME	EMPLOYEE SIGNATURE

This sheet may be reproduced for internal use only.

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Hazardous Chemical List

NAME OF PRODUCT	NAME OF PRODUCT

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Non-Routine Tasks

List any non-routine task where an employee could be exposed to hazardous chemicals.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____

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Contractor Acknowledgment Form

Have any contractor or third party employee that may perform work on your site sign here to acknowledge that they have been made aware of this store's written Safety Data Sheet Manual and any chemical hazards that they may come into contact with.

PRINTED NAME	SIGNATURE	DATE