

HAZARD COMMUNICATION

SAFETY DATA SHEET AND
NEW LABEL FORMAT TRAINING

Safety Data Sheets

- The Hazard Communication Standard (HCS) requires chemical manufacturers, distributors, or importers to provide Safety Data Sheets (SDSs) (formerly known as Material Safety Data Sheets or MSDSs) to communicate the hazards of hazardous chemical products.
- Training covering the new standard must be completed by December 1, 2013. This is so that employees will understand the new labels and SDSs as they are introduced into the workplace.
- As of June 1, 2015, the HCS will require new SDSs to be in a uniform format, and include the section numbers, headings, and associated information as shown in this presentation.
- On June 1, 2016, all labels will be required to be the new label format in all workplaces.

Safety Data Sheets

HAZARD COMMUNICATION

Section 1: Identification

1. Product identifier used on label.
2. Recommended use, restrictions on use.
3. Responsible party (i.e. manufacturer or distributor), address, phone number
4. Emergency phone number

1. IDENTIFICATION	
1	<u>Product Identifier</u> Product Name Oven Cleaner
	<u>Other means of identification</u> SDS # ML-001
	UN/ID No UN1780
2	<u>Recommended use of the chemical and restrictions on use</u> Recommended Use Oven Cleaner.
3	<u>Details of the supplier of the safety data sheet</u> Supplier Address
	Midlab, Inc. 140 Private Brand Way Athens, TN 37303
4	<u>Emergency telephone number</u> Company Phone Number 1-800-487-6294 Emergency Telephone INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

Section 2: Hazard(s) Identification

1. Hazard classification


2. Signal word

3. Hazard statement

4. Pictograms (see next slide) or hazard symbol

5. Precautionary statements

6. Description of additional hazards

2. HAZARDS IDENTIFICATION	
<u>Classification</u>	
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
<u>Signal Word</u> Danger	
<u>Hazard Statements</u> Causes severe skin burns and eye damage	
	
Appearance Brown liquid	Physical State Liquid
Odor Lemon lime	
<u>Precautionary Statements - Prevention</u> Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection	
<u>Precautionary Statements - Response</u> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting	
<u>Precautionary Statements - Storage</u> Store locked up	
<u>Precautionary Statements - Disposal</u> Dispose of contents/container to an approved waste disposal plant	
<u>Hazards not otherwise classified (HNOC)</u> Not Applicable	
<u>Other Information</u> • Harmful to aquatic life with long lasting effects • Harmful to aquatic life	

OSHA Pictograms

HCS PICTOGRAMS AND HAZARDS

HEALTH



- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
- Target Organ Toxicity
- Aspiration Toxicity

FLAME



- Flammables
- Pyrophorics
- Self-Heating
- Emits Flammable Gas
- Self-Reactives
- Organic Peroxides

EXCLAMATION MARK



- Irritant (skin and eye)
- Skin Sensitizer
- Acute Toxicity (harmful)
- Narcotic Effects
- Respiratory Tract Irritant
- Hazardous to Ozone Layer (non-mandatory)

CORROSION



- Skin Corrosion/ Burns
- Eye Damage
- Corrosive to Metals

SKULL & CROSSBONES



- Acute Toxicity (fatal or toxic)

FLAME OVER CIRCLE



- Oxidizers

ENVIRONMENT (Non-Mandatory)



- Aquatic Toxicity

GAS CYLINDER



- Gases Under Pressure

EXPLODING BOMB



- Explosives
- Self-Reactives
- Organic Peroxides

Section 3: Composition/Information on Ingredients

1. Chemical name
2. CAS number
3. Weight
4. Trade secret claims

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Water	7732-18-5	70-80	■
Potassium hydroxide	1310-58-3	5-10	■
2-Butoxyethanol	111-78-2	<5	■
Cocamidopropyl betaine	61789-40-0	<5	■
Tetrasodium EDTA	64-02-8	<3	■
Glucos	31138-65-5	<1	■
Amine Oxide Surfactant	61788-90-7	<1	■
Xanthan gum	11138-66-2	<1	■

Section 4: First Aid Measures

1. Necessary first-aid instructions by relevant routes of exposure
2. Important symptoms/effects, acute, delayed
3. Recommendations for immediate medical care and special treatment

4. FIRST AID MEASURES

First aid measures

1

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician immediately.

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

Ingestion

Rinse mouth. Do NOT induce vomiting. Call a physician or your local Poison Control Center.

Skin Contact

Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/ attention.

2

Most important symptoms and effects, both acute and delayed

Symptoms

Contact will cause irritation and redness to exposed areas. Causes painful stinging or burning of eyes and lids, watering of eyes. Prolonged contact may even cause severe skin irritation or mild burn.

3

Indication of any immediate medical attention and special treatment needed

Note to Physicians

Treat symptomatically.

Section 5: Fire Fighting Measures

1. Suitable extinguishing techniques
2. Advice on specific hazards that develop
3. Recommendations on special protective equipment

5. FIRE-FIGHTING MEASURES

1

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

2

Specific hazards arising from the chemical

None known.

Hazardous combustion products Normal products of combustion.

3

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

1. Use of personal precautions and protective equipment

2. Methods and materials for containment and clean-up procedures

6. ACCIDENTAL RELEASE MEASURES

1

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment as required.

Environmental Precautions

See Section 12 for additional ecological information.

2

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

1. Precautions for safe handling

1

Precautions for safe handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use personal protection recommended in Section 8.

2. Recommendations on the conditions of safe storage including any incompatibilities

2

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep from freezing.

Incompatible materials

strong acids. Strong oxidizing agents.

Section 8: Exposure Control/Personal Protection

1. OSHA's Permissible Exposure Limits (PELs); Threshold Limit Values (TLVs)
2. Appropriate engineering controls
3. Personal protective equipment (PPE)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION			
Exposure Guidelines			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

Appropriate engineering controls

2

Engineering Controls

Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

3

Eyel/Face Protection

Splash goggles or safety glasses.

Skin and Body Protection

Chemical resistant, impermeable gloves.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

1. List of physical and chemical properties associated with the substance of mixture.

9. PHYSICAL AND CHEMICAL PROPERTIES			
<u>Information on basic physical and chemical properties</u>			
Physical State	Liquid		
Appearance	Brown liquid	Odor	Lemon lime
Color	Brown	Odor threshold	Not determined
<u>Property</u>	<u>Values</u>	<u>Remarks - Method</u>	
pH	Not determined		
Melting point/freezing point	Not determined		
Boiling point/boiling range	Not determined		
Flash point	Not determined		
Evaporation rate	Not determined		
Flammability (solid, gas)	n/a-liquid		
Flammability limits in air			
Upper flammability limits	Not determined		
Lower flammability limit	Not determined		
Vapor pressure	Not determined		
Vapor density	Not determined		
Specific gravity	Not determined		
Water solubility	Soluble in water		
Solubility in other solvents	Not determined		
Partition coefficient	Not determined		
Autoignition temperature	Not determined		
Decomposition temperature	Not determined		
Kinematic viscosity	Not determined		
Dynamic viscosity	Not determined		
Explosive properties	Not determined		
Oxidizing properties	Not determined		
<u>Other Information</u>			

Section 10: Stability and Reactivity

1. Reactivity

2. Chemical stability

3. Possibility of hazardous reactions

10. STABILITY AND REACTIVITY

1

Reactivity

Not reactive under normal conditions

2

Chemical stability

Stable under recommended storage conditions.

3

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Keep out of reach of children.

Incompatible materials

strong acids. Strong oxidizing agents.

Hazardous Decomposition Products

When exposed to fire, produces normal products of combustion.

Section 11: Toxicological Information

1. Routes of exposure

2. Related symptoms, acute and chronic effects

3. Numerical measures of toxicity

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Avoid breathing vapors or mists.
Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Ingestion	Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 1310-58-3	= 214 mg/kg (Rat)	-	-
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Cocamidopropyl betaine 61789-40-0	= 4900 mg/kg (Rat)	-	-
Tetrasodium EDTA 64-02-8	= 10 g/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol 111-76-2	A3	Group 3		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity- Product

Not determined

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	5451 mg/kg
ATEmix (dermal)	28947 mg/kg
ATEmix (inhalation-gas)	657895 mg/l
ATEmix (inhalation-dust/mist)	58.2 mg/l

Section 12: Ecological Information

1. Data from toxicity tests
2. Potential to persist and degrade the environment
3. Data on bioaccumulation potential
4. Movement to groundwater
5. Other adverse effects

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium hydroxide 1310-58-3		80: 96 h <i>Gambusia affinis</i> mg/L LC50 static		
2-Butoxyethanol 111-76-2		1490: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 2950: 96 h <i>Lepomis macrochirus</i> mg/L LC50		1698 - 1940: 24 h <i>Daphnia magna</i> mg/L EC50 1000: 48 h <i>Daphnia magna</i> mg/L EC50
Cocamidopropyl betaine 61789-40-0	1.0 - 10.0: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 0.55: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	1.0 - 10.0: 96 h <i>Brachydanio rerio</i> mg/L LC50 2: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static		6.5: 48 h <i>Daphnia magna</i> mg/L EC50
Tetrasodium EDTA 64-02-8	1.01: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	41: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 59.8: 96 h <i>Pimephales promelas</i> mg/L LC50 static		610: 24 h <i>Daphnia magna</i> mg/L EC50

Persistence and degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined.

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	0.65
2-Butoxyethanol 111-76-2	0.83
	0.81

Other adverse effects

Not determined

Section 13: Disposal Considerations

1. Disposal container and methods
2. Physical and chemical properties that may affect disposal activities
3. Language discouraging sewage disposal
4. Any special precautions for landfills or incineration activities

13. DISPOSAL CONSIDERATIONS

1

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

2

Chemical Name	California Hazardous Waste Status
Potassium hydroxide 1310-58-3	Toxic Corrosive

Section 14: Transportation Information

1. UN number

14. TRANSPORT INFORMATION

2. UN proper shipping name

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

3. Transport hazard class(es)

DOT

UNID No

1

UN1780

Proper shipping name

2

Corrosive liquid, n.o.s. (Potassium hydroxide, 2-Butoxyethanol)

Hazard Class

8

3

4. Packing group number

Packing Group

4

II

Reportable Quantity (RQ)

potassium hydroxide, 1000 lbs

5. Environmental hazards

Section 15: Regulatory Information

1. Identifies the safety, health, and environmental regulations specific for the product
2. National and/or regional regulatory information of the chemical or mixtures

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC

- China Inventory of Existing Chemical Substances KECL -

Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	111-76-2	<5	1.0

SARA 311/312 Hazard Categories

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide 1310-58-3	1000 lb			X

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	X	X	X
2-Butoxyethanol 111-76-2	X	X	X

U.S. EPA Label Information

Section 16: Other Information

1. NFPA and HMIS information

1

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
<u>HMIS</u>	Health hazards	Flammability	Physical hazards	Personal protection
	Not determined	Not determined	Not determined	Not determined

2. SDS issue date

2

Issue Date 18-Feb-2013
Revision Date 18-Feb-2013
Revision Note
New format

3

3. SDS revision date and any notes

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SDS Questions

1. What is the compliance deadline (month, day, and year) for training employees on the new SDS?
2. In which section would you find the CAS number for a hazardous chemical?
3. In which section would you find the UN number and proper shipping name, required for transporting chemicals?
4. In which section would you find the signal word, hazard statement, symbol, and precautionary statement (corresponding to information on the label)?
5. In which section would you find information about safe disposal of waste chemicals and contaminated packaging?
6. How many sections are on a SDS?

SDS Questions continued

7. What is the meaning of this Pictogram?



8. In which section would you find information about first aid for exposures?
9. By what date must you switch over from the MSDS to the SDS?
10. What does GHS mean?

SDS Answers

1. December 1, 2013
2. Section 3, Composition/Information on Ingredients
3. Section 14, Transportation Information
4. Section 2, Hazard Identification
5. Section 13, Disposal Considerations
6. 16
7. This material is corrosive to skin or metals, or causes eye damage.
8. Section 4, First Aid
9. June 1, 2015
10. Global Harmonization System (a standard worldwide system)

New Label Information

HAZARD COMMUNICATION

Label Requirements

All labels will be required to contain:

1. Pictograms (see next slide)
2. Signal Word
3. Hazard and Precautionary Statements (prevention, response, storage, disposal)
4. Product Identifier (product name and number)
5. Supplier Identification (manufacturer, distributor or responsible party name and address)
6. Emergency phone number

MAXIM **Mold-n-Mildew | RB 386**

2 **DANGER:** Causes skin irritation. Causes serious eye damage. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection / face protection. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. **IF ON SKIN:** Wash with plenty of soap and water. If skin irritation occurs: Get medical advice / attention. Take off contaminated clothing and wash it before reuse.

3 **KEEP OUT OF REACH OF CHILDREN.**
For additional information, see Safety Data Sheet (SDS) for this material.

1 **PELIGRO:** Provoca irritación cutánea. Provoca lesiones oculares graves. Lavarse cara, las manos y la piel expuesta concienzudamente tras la manipulación. Llevar guante de protección. **CONTACTO CON LOS OJOS:** Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Llamar inmediatamente a un CENTRO DE INFORMACIÓN TOXICOLÓGICA o a un médico. **CONTACTO CON LA PIEL:** Lavar con agua y jabón abundantes. En caso de irritación cutánea: Consultar a un médico. Quitarse las prendas contaminadas y lavarlas antes de volver a usarlas.

MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS.
Para información adicional, ver la Hoja de Seguridad de Datos (SDS) para este material.

CONTAINS (CAS #): Water (7732-18-5), Sodium Hypochlorite (7681-52-9), and Amine Oxide Surfactant (61788-90-7).

MAXIM **Mold-n-Mildew Stain Remover** **4**

Removedor de manchas de moho y mildiú **RB 386**

1 **Wear safety glasses & gloves**
Use anteojos de seguridad & guantes

2 **Spray onto surface**
Rocíe sobre la superficie

3 **Wait 5 to 10 minutes**
Espere de 5 a 10 minutos

4 **Rinse away with clean water**
Enjuague con agua limpia

For detailed instructions and safety info, refer to side panels.

NET CONTENTS: ONE U.S. QUART (946mL)

MAXIM **Mold-n-Mildew | RB 386**

DESCRIPTION
This product is a highly effective mold and mildew stain remover. Pleasantly scented, this product will leave surfaces clean and fresh smelling. Safer than using straight bleach, it can be used anywhere mold and mildew stains present a problem.

DIRECTIONS
Test small amount of product in an inconspicuous spot to ensure no discoloration will occur. Open spray nozzle to produce a narrow stream. Spray product directly onto surface to be cleaned. Allow 5-10 minutes for the product to penetrate and loosen any mold and mildew stains. Rinse away with clean tap water.

NOTE: DO NOT MIX with acids, ammonia, or other cleaning products.

INSTRUCCIONES
Pruebe el producto en una area pequena para asegurar que no ocurra decoloracion. Abra la boquilla del rociador produciendo un flujo reducido. Rocíe el producto directamente sobre la superficie que se va a limpiar. Dejar 5 - 10 minutos para que el producto penetre y saque cualquier moho o mancha de moho. Enjuagar con agua limpia.

NOTA: NO MEZCLE con ácidos, amoníaco u otros productos de limpieza.

MIDLAB 140 Private Brand Way
Athens, TN 37303
800.467.6294
midlabinc.com

MADE IN U.S.A. | HECHO EN EEUU.

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY

OSHA Pictograms

HCS PICTOGRAMS AND HAZARDS

HEALTH



- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
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CORROSION



- Skin Corrosion/ Burns
- Eye Damage
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SKULL & CROSSBONES



- Acute Toxicity (fatal or toxic)

FLAME OVER CIRCLE



- Oxidizers

ENVIRONMENT (Non-Mandatory)



- Aquatic Toxicity

GAS CYLINDER



- Gases Under Pressure

EXPLODING BOMB



- Explosives
- Self-Reactives
- Organic Peroxides

Label Questions

1. What are the required label elements?
2. What is the final deadline when all containers in all workplaces must be properly labeled with GHS labels?

Label Answers

1. Product Identifier, Pictograms, Signal Word, Hazard Statements, Precautionary Statements, Supplier Information
2. June 1, 2016