OSHA Hazard Communication Standard

Complying with the <u>NEW</u> 2013 Global Harmonization System

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Reference to OSHA Regulations



 Federal OSHA has issued final rule to revise the Hazard Communication Standard (HCS)
 Federal OSHA 29 CFR 1910.1200

Cal OSHA adopted the HCS revision on May 6, 2013
 Cal OSHA Regulations - Title 8 Section 5194

http://www.osha.gov/dsg/hazcom/index.html.

Hazard Communication Standard 1990



Cal OSHA Regulations - Title 8 Section 5194

- 1. Inventory of Chemical Hazards
- 2. Materials Safety Data Sheets (SDS for each)
- 3. Container Labeling
 - Personal Protective Equipment (PPE) Training







December 1, 2013 Changes

All employees must receive training on the new;

- **1** Safety Data Sheets (SDS)
- 2 Hazard Classification
- 3 Labels

December 1, 2013 Changes

1. Safety Data Sheets (SDS):

Formally **MSDS** and **now, they are known as SDS** They have a NEW format with <u>16 sections</u>



New SDS Requirements



1.Identification of chemical product and supplier

2. Hazards identification (New Classification)

- **3.Composition/information on ingredients Substance/Mixture**
- 4.First aid measures
- 5.Firefighting measures
- 6.Accidental release measures
- 7.Handling and storage
- 8. Exposure controls/personal protection.
- 9. Physical and chemical properties
- **10.Stability and reactivity**
- 11.Toxicological
- 12. Ecological information (non mandatory)
- 13. Disposal considerations (non mandatory)
- 14. Transport information (non mandatory)
- 15.Regulatory information (non mandatory)

16.Other information including information on preparation and revision of the SDS



- Identification of chemical product, supplier, substance, address, phone, emergency number recommended use and restrictions on use
- 2. <u>Hazards identification</u> includes all hazards regarding the chemical; required label requirements.

This is the biggest are of change - New Classification

- Signal Word
- Symbol Pictogram
- Hazard Statement(s)
- Precautionary statement(s)
- Supplier Info



- 3. <u>Composition/information on ingredients</u> includes information on chemical ingredients; trade secret claims.
- 4. <u>First aid measures</u> include important symptoms/effects, acute, delayed; required treatment.
- 5. <u>Fire Fighting measures</u> lists suitable extinguishing techniques, equipment, chemical hazards from fire.
- 6. <u>Accidental release measures</u> lists emergency procedures; protective equipment; proper methods of containment and clean-up.



- 7. <u>Handling and storage</u> lsits precautions for safe handling and storage, including incompatabilities.
- Exposure controls and personal protection lists OSHA's Permissible Limits (PELs), Threshold Values and PPE.
- 9. <u>Physical and chemical properties</u> lists the chemicals characteristics.
- 10. <u>Stability and reactivity</u> lists chemical stability and possibility of hazardous reactions.



- 11. <u>Toxicological information</u> includes routes of exposure, related symptoms; acute and chronic effects; numerical measures of toxicity.
- 12. Ecological Information *
- 13. Disposal considerations *
- 14. Transportation information *
- 15. <u>Regulatory information *</u>
- 16. <u>Other information</u> includes the date of preparation or last revision.
- * non mandatory

Full Compliance by manufactures and suppliers by June 2015

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1. Produ	ct and comp	any identification				Section 1. Cl	hemical product and company i	dentification
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		all Inc. Palityland Dumor					to 25 cargal or 195 mild, to water	to 25-cettad or 165 mil.A, to water
Code Date of seve	St. 1-5 9 917 1 82-4 EMER Duisside Un	N. Vicensiva Deser New, NN 65102 20-302-6326 200-65 December 2019 IddInc's HEALTH INFORMATION IddInc's HEALTH INFORMATION Intel States and Canada CALL 1-	1.805-526-8628 651-222-6352 (in USA)			Supplier's informati Code Date of issue	en : Excitab Inc. Institutional Disease S/IS N, Wedestha Street IB /Fact. Ann 56182 4 400 352 A128 2 917265-55 1 12 Fea 2813	
2. Hazar	ds identifica	tion					Outside United Earlys and Camada CA	L 1 (611-222-6352 (in UGA)
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See toroutuges	al Informationi (Sec.)	ken 11)	CALIFOR			HALF	1. Causes serious eye mitalize.	Man nause an adapte alto machine
3. Comp	osition/infor	mation on ingredient	5				May cause an allergic stin reaction. Total to equate Me	Harmful to aquettic she.
Product AS SOLD Nation 2.2 convectorities University			CAS number 111-42-2 1089-27-5	5.1x.mild 15 5.20		Precautionary state Prevention	Hamilia to aqueto ble with long tasting effects mants • Wear primitive glores. Wear eye of face protection. Aread steams to the analysis tomatol. Aread feasibles apage. Wash land, tomatoli.	Over potentive gloves, Avoid remote to the events and the standard sector Weath for the sector and the sector water
Product AT USE Nation 2.2	DILUTION .		CAL number 111-62-2 1669-27-5	Suburestats 4 1-3			when kanneling. Contaminated work intertaing should not be attimed out of the workplace.	Contamendation work existing should not be altowed out of the workplace.

December 1, 2013 Changes

2. Hazard classification: Provides specific criteria for classification of health and physical hazards

This is the biggest are of change- New Classification

- Signal Word
- Symbol Pictogram
- Hazard Statement(s)
- Precautionary statement(s)
- Supplier Info

Physical Hazards are divided into 16 groups;

- 1. Explosives
- 2. Flammable gases
- 3. Flammable aerosols
- 4. Oxidizing gases
- 5. Gases under pressure
- 6. Flammable liquids
- 7. Flammable solids
- 8. Self-Reactive substances
- 9. Pyrophoric liquids

- **10. Pyrophoric solids**
- 11. Self-heating substances
- 12. Substances which, in contact with water, emit flammable gases
- 13. Oxidizing liquids
- 14. Oxidizing solids
- 15. Organic peroxides
- 16. Corrosive to metals

Health Hazards are divided into 10 groups;

- 1. Acute toxicity
- 2. Skin corrosion/irritation
- 3. Respiratory or skin sensitization
- 4. Serious eye damage/eye irritation
- 5. Germ cell mutagenicity
- 6. Carcinogenicity

- 7. Reproductive toxicology
- 8. Target organ systemic toxicity- single exposure
- 9. Target organ systemic exposure- repeated exposure
- **10. Aspiration toxicity**

SAFETY DATA SHEET

ECC

OASIS 146 MULTI-QUAT SANITIZER

Section 1. Chemical product and company identification

Product name Recommended use and restrictions	USE only for the purpose on the product lab	2
Product dilution Informatio	n Up to 4 oz/gal in water	
Supplier's information	 Ecolab Inc. Institutional Division 370 N. Wabasha Street St. Paul, MN 55102 1-800-352-5326 910787 	
Date of issue EPA Registration No.	: 06 Aug 2013 : 1677-198 EMERGENCY HEALTH INFORMATION Outside United States and Canada CALL	1-800-328-0526 1-851-222-5352 (m. USA)
Paction 2 Hazar	ds identification	
GHS Classification	Product AS SOLD ACUTE TOXICITY: ORAL - Category 4 SKIN CORROSION/IRRITATION - Category 18 SERIOUS EVE DAMAGE/ EVE IRRITATION - Category 1	Product AT USE DILUTION SERIOUS EYE DAMAGEI E - Category 28
GHS label elements Signal word : Symbol :		Warning
Hazard statements :	Harmful if swallowed. Causes severe skin burns and eye damage.	Causes eye initation
Precautionary statements Prevention	Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash	Wash hands theroughly a

December 1, 2013 Changes

• • • Packaging, and secondary containers

- **3. Labels**: Chemical manufacturers and importers will be required to provide a label that includes a
 - 1) Signal word
 - 2) Pictogram
 - 3) Hazard statement for each hazard class and category
 - 4) Precautionary statement
 - 5) Supplier Information
 - name, address and phone number





<u>New Label</u> 1. Signal Words



New Label 2. Pictogram





Pictogram

Flammable Chemicals that are self heating

>Emit flammable gas

Self reactive



Flame over Circle

Pictogram –

>Oxidizers that promotes combustion such as oxygen



Exploding Bomb

Pictogram

Exploding bomb to declare explosives and violent self-reactives like organic peroxides



Corrosion

Pictogram

Corrosive chemicals which can burn skin, damage eyes, and corrode metals.

This is important to know for appropriate PPE use and proper storage.



Gas Cylinder

Pictogram

Compressed gases



Skull and Crossbones

Pictogram

>chemicals of acute toxicity, perhaps even fatal.



Exclamation Mark

Pictogram

>warns of an irritant to skin or eyes, skin sensitization, narcotic effects, or a respiratory tract irritant.



Environment

Pictogram

>chemicals with aquatic toxicity



Health Hazard

Pictogram

Health hazards from chemical use which might include cancer, birth defects, sterility, or other target organ toxicity.



New Label 3. Hazard Statement



New Label

4. Precautionary Statement

SAMPLE	LABEL
CODE Product Name Product Identifier	Hazard Pictograms
Company Name Supplier Street Address State CityState Supplier Postal CodeCountry Identification Emergency Phone Number Supplier	
PRECAUTIONARY STATEMENTS eep container tightly closed. Store in cool, eell ventilated place that is locked. eep away from heat/sparks/open flame. No moking.	Signal Word Danger Highly flammable liquid and vapor. May cause liver and kidney damage. Hazard Statements
nly use non-sparking tools. se explosion-proof electrical equipment. ake precautionary measure against static scharge. round and bond container and receiving quipment.	nent Supplemental Information Directions for Use
o not breathe vapors. /ear Protective gloves. o not eat, drink or smoke when using this roduct. /ash hands thoroughly after handling. ispoae of in accordance with local, regional, ational, international regulations as	Fill weight: Lot Number: Gross weight: Fill Date: Expiration Date: Fill Date:

New Label

5. Supplier Information

Sample Label (XYZ Company)						
Product Name Product Code	Company Name Street Address					
Keep container tightly clo Store in a cool, well-venti phone, etc.	City State Postal CodeCountry Phone Number					
Keep away from heat/sparks/open flame. No smoking. Use only non-sparking tools						
Use explosion-proof electrical equipment. Take precautionary measures against static discharge. Ground and bond container and receiving equipment.						
Do not breathe vapors. Wear protective gloves. Do not eat, drink or smoke when using this product.	Danger					
Wash hands thoroughly after handling. Dispose of in accordance with local, regional, national and international regulations as specified.	Highly flammable liquid and vapor. May cause liver and kidney damage.					
In Case of Fire: use dry chemical (BC) fire extinguisher						
First Aid If exposed call Poison Control If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water.	Directions for Use Fill Weight: Lot Number: Gross Weight: Fill Date: Expiration Date:					

New Secondary Container Label



DIELINE # 574120

Summary of HCS-GHS Changes

New Signal Words

- "Warning" less severe hazard
- "Danger" more

Standardized Hazard Statements

Examples – "Highly flammable liquid and vapor", "Causes skin irritation"

Standardized Pecautionary Statements

- Examples "Wear protective gloves", "Do not breathe vapors"
- Pictorgram



OSHA – Final Rule

- Effective Dates:
 - 12/1/13: <u>All employees must be trained on new</u> label elements and SDS format
 - 6/1/15: Manufacturers and distributors must comply with all modified provisions except that distributors have until 12/1/15 to provide revised labels for all products shipped.
 - 6/1/16: OSHA enforcement starts: Employers must update all labels and HazCom program, provide additional training for workers on newly identified physical or health hazards
 - During transition period, employers can comply with old or new standard as far as labels and SDSs.

Safety Data Sheets (SDS) Formerly Material Safety Data Sheets

A Deaduct and ear	and any identification			Section	on 1. Chem	ical product and company is	dentification
BEFORE	n Sto eng motet e 12 lege ip 960 mil/3.78 L man	•	i	AFT	ER	nie 560 prozenie o osły lite thei pergenei dan the persolant	tiol
Cole Date of Issue Date Date Date Date	PD 14 Witchield South 16 Paul, NN 67102 1800-4523 19720-455 19720-455 19	kato-128-0128 (51-222-5352 (== 1154)		Supplier Code Case of A	a urlöymallön Ssum	Contacting of the recurst parameter Distance into contacting Distance Distance into contacting Distance into a parameter Distance	1 800-124 0028
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Oasis 560		13 Mar 2013
Section 2. H	azards identification	
	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. 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.	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
Storage	: No other specific measures identified.	No other specific measures identified.
Disposal	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards	: None known.	None known.
Section 3. C	omposition/information on ingre	edients
Substance/mixture Product AS SOLD	: Mixture	
Hazardous ingredi	ents Concentratio	on Range (%) CAS nu ber
TEA-DODECYLBEN	ZENESULFONATE 24	27323-41-7
ETHYL LAURATE TRIETHANOLAMIN benzenesulfonic acid	5 - 20 5 - 20 d, dodecyl-, compd. with 2-aminoethanol 5 - 20	106-33-2 102-71-6 26836-07-7
TETRASODIUM ED Limonene	TA 1-5 1-5	64-02-8 5989-27-5
Product AT USE DI	LUTION	
Hazardous ingredi	ents Concentratio	on Range (%) CAS number
TEA-DODECYLBEN ETHYL LAURATE TRIETHANOLAMIN benzenesulfonic aci (1:1) Limonene	IZENESULFONATE 4 E 1 - 5 d, dodecyl-, compd. with 2-aminoethanol 1 - 5 <1.0	27323-41-7 106-33-2 102-71-6 26836-02-7 5989-27-5
Section 4. Fi	irst aid measures	<u> </u>
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.	Product AT USE DILUTION Winse with No known effect after eye contact. Winse with b. water for a few minutes.
Skin contact	 Take off contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. 	Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
Protection of first- aiders	 No action shall be taken involving any personal ri dangerous to the person providing aid to give mo clothing thoroughly with water before removing it, 	isk or without suitable training. It may be buth-to-mouth resuscitation. Wash contaminated or wear gloves.



	Product AS SOLD	Product AT USE DILUT
Appropriate	: Good general ventilation should be sufficient to	Good general ventilation sng
engineering contro	 control worker exposure to airborne contaminants. 	contaminants.
Personal protection		······
Eye protection	: Wear eye protection.	No protective equipment is needed under normal use conditions.
Hand protection	: Use chemical-resistant, impervious gloves.	Use chemical-resistant, impervious gloves.
Skin protection	: Use suitable protective equipment.	Use suitable protective equipment.
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 aft smoking and using the lavatory and at the end should be used to remove potentially contaming before reusing. 	er handling chemical products, before eating, of the working period. Appropriate techniques ated clothing. Wash contaminand clothing
Section 9. Ph	ysical and chemical properties	· <u> </u>
	Product AS SOLD	Product AT USE
Physical state	: Liquid.	Liquid.
Color	: Amber	Amber [Light]
Ddor	: citrus	citrus
н	: 8 to 8.9 (100%)	7 to 9
lash point	: Product does not support combustion.	> 100°C
Explosion limits	: Not available.	
lammability (solid,	: Not available.	
jas)		
Melting point	: Not available.	
Boiling point	: Not available.	
Evaporation rate butyl acetate = 1)	: Not available.	
/apor pressure	: Not available.	
/apor density	: Not available.	
Relative density	: 1.035 to 1.065 (Water = 1)	
Solubility	: Easily soluble in the following materials: cold water and hot water.	
Partition coefficient: n-octanol/water	: Not available.	
Auto-ignition emperature	: Not available.	
Decomposition emperature	: Not available.	
Odor threshold	: Not available.	
Para Mar	Dynamic (room temperature): 200 mPa-s (200	

Oasis 560						3 Mar 2013
Section 10. St	tabi	lity and rea	activity			
Product AS SOLD Stability Possibility of hazardo reactions	ous	: The product : Under norma	is stable. al conditions of stora	ge and use	e, hazardous reaction	TO. Swilptalur.
Conditions to avoid Materials to avoid Hazardous decompos	sition	: No specific o : Not available : Under norma	lata. e. al conditions of stora;	ge and use	e, hazardous decomp	osition products
Section 11. To	oxic	ological in	formation		/	
Route of exposure	: Ski	n contact, Eye cor	ntact, Inhalation, Inge	estion	<	
	Pro	duct AS SOLD			Product AT USE D	
Symptoms					_	
Eye contact	: Adv pair wat red	verse symptoms r n or irritation tering ness	nay include the follow	ving:	No specific data.	
Skin contact	: Adv irrit red	verse symptoms r ation ness	nay include the follow	ving:	Adverse symptoms i irritation redness	may include the following:
Inhalation	: No	specific data.			No specific data.	
Ingestion	: No	specific data.			No specific data.	
Acute toxicity						
Eye contact	: Ca	uses serious eye i	rritation.		No known significan hazards.	t effects or critical
Skin contact	: Cai rea	uses skin irritation ction.	. May cause an alle	rgic skin	May cause an allerg	ic skin reaction.
Inhalation	: No	known significant	effects or critical has	zards.	No known significan hazards.	t effects or critical
Ingestion	: No	known significant	effects or critical ha	zards.	No known significan hazards.	t effects or critical
Toxicity data Product/ingredient r	ame		Result	Sne	cies	Dose
ethyl laurate			LD50 Dermal LD50 Oral LD50 Dermal	Rab Rat Rab	bit	>2000 mg/kg >5000 mg/kg >2000 mg/kg
acetic acid, (ethylened	dinitrilo)tetra-,	LD50 Oral LD50 Oral	Rat Rat		6400 mg/kg 1700 mg/kg
tetrasodium salt (r)-p-mentha-1,8-dien	е		LD50 Dermal LD50 Oral	Rab Rat	bit	>5000 mg/kg 4400 mg/kg
Chronic toxicity						
Carcinogenicity		: No known s	ignificant effects or c	ritical haza	ards.	
Mutagenicity		: No known si	gnificant effects or c	ritical haza	irds.	
Teratogenicity		: No known si	gnificant effects or c	ritical haza	irds.	
Developmental effect	ts	: No known si	gnificant effects or c	ritical haza	irds.	
Fertility effects		: No known si	gnificant effects or c	ritical haza	irds.	





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Labels for a hazardous chemical must contain:

- Name, Address and Telephone Number
- Product Identifier
- Signal Word
- Hazard Statement(s)
- Precautionary Statement(s)
- Pictogram(s)

S	AFETY DATA SHEE Oasis 560	T ECOLAE
Section 1. Che	mical product and company ic	lentification
Product name Recommended use and restrictions	: Oasis 560 : Degraaser Use only for the purpose on the product (label.
Product dilution inform	ation : Up to 25 uz/gal or 195 mUL in water	
Supplier's information	: Ecolab Inc: Institutional Division 370 N. Wabasha Striet St: Paul, MN 55102 1-800-352-5326 917260.05	
Date of issue	: 12 Feb 2013 EMERGENCY HEALTH INFORMATION Outside United States and Canada CALL	1-800-328-0026 1-651-222-5352 (in USA)
Section 2. Haza	ards identification	
5	Product AS SOLD	Product AT USE DILUTION
GHS Classification	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A- SKIN SENSITIZATION - Category 1 AQUATIC TOXICITY (ACUTE) - Category 2 AQUATIC TOXICITY (CHRONIC) - Category 3	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 28 SKIN SENSITIZATION - Category 1 AQUATIC TOXICITY (ACUTE) - Category 3
GHS label elements	Contraction and the state of the state	
Signal word Symbol	Winning	Warning
Hazard statements	: Causes senous eye initation. Causes skin initation May cause an inlergic skin reaction. Toxic to aquatic Me. Hermful to aquatic lite with long lasting effects.	Causes ave irritation. May cause an allergic skin reaction. Harmful to aquatic fife.
Precautionary statemen	uts	and a second second
Prevention	Wear protective gloves. Wear eye or facer protection. Avoid release to the environment. Avoid breathing vapar. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.	Wear protective gloves, Avoid release to the environment, Avoid breathing vapor, Wash hands theroughly after handling. Contaminated work clothing should not be allowed out of the workplace
Response		
_		Page: 1/7

Labels for a hazardous chemical must contain:

- Name, Address and Telephone Number
- Product Identifier
- Signal Word
- Hazard Statement(s)
- Precautionary Statement(s)
- · Pictogram(s)

Section 1. Ch	emical product and compa	ny identification
Product name Recommended use a	: Oasis 560 nd : Degreaser	
restrictions	Use only for the purpose on the p	roduct tabel.
Product dilution info	mation : Up to 25 uzgal or 195 mUL in wa	Inc
Supplier's informatio	n : Ecolab Inc. Institutional Division 370 N. Wabasha Street St. Paul, MN 55102 1-600-352-5326 917256.05	
Date of issue	: 12 Feb 2013	
4 40 M II 11 1 1 1 1	EMERGENCY HEALTH INFORM Outside United States and Canad	ATION: 1-800-328-0026
Section 2. Ha	zards identification	a success from a second from a second
	Product AS SOLD	Product AT USE DILUTION
GHS Classification	SKIN CORROSION/IRRITATION - Calego SERIOUS EYE DAMAGE/ EYE IRRITAT Category 2A SKIN SENSITIZATION - Calegory 1 AQUATIC TOXICITY (ACUTE) - Categor AQUATIC TOXICITY (CHRONIC) - Categor	ory 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 28 SKIN SENSITIZATION - Category 1 AQUATIC TOXICITY (ACUTE) - Category 3 y 2 gory 3
GHS label elements		
Signal word	: Winning	Warning
Symbol		
Hazard statements	: Causes senous eye imitation. Causes skin imitation May cause an inlergic skin reaction. Toxic to aquatic Me. Harmful to aquatic life with long lasting et	Causes wye irritation May cause an allergic skin reaction Harmful to aquatic fife flocts.
Precautionary staten	nents	
Prevention	Wear protective gloves. Wear eye or face protection. Avoid release to the environm Avoid breathing vapor. Wash hands thore after handling. Contaminated work clothin should not be allowed out of the workplace	Wear protective gloves. Avoid release to the environment. Avoid broathing vapor. Wash hands theroughly after handling. Contaminated work clothing should not be allowed out of the workplace
Response	\$	

Labels for a hazardous chemical must contain:

- Name, Address and Telephone Number
- Product Identifier
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- Pictogram(s)

0.	Oasis 560	
Section 1. Che	mical product and company id	lentification
Product name Recommended use and restrictions	: Oasis 560 : Degreaser Use only for the purposit on the product is	abal.
Product dilution inform	ation : Up to 25 us/gal or 195 mUL in water	
Supplier's information Code Date of issue	: Ecolab Inc. Institutional Division 370 N. Wabasha Street St. Paul, MN 55102 1-800-352-5326 : 917260-05 : 12 Feb 2013 EMERGENCY HEALTH INFORMATION. Outside United States and Canada CALL	1-800-328-0026 1-651-222-5352 (in USA)
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GHS Classification	Product AS SOLD : SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC TOXICITY (ACUTE) - Category 2 AQUATIC TOXICITY (ACUTE) - Category 3	Product AT USE DILUTION SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 28 SKIN SENSITIZATION - Category 1 AQUATIC TOXICITY (ACUTE) - Category 3
GHS label elements		
Signal word Symbol	Waning	Warning
Hazard statements	: Causes senous eye imitation Causes skin imitation May cause an intergic skin reaction. Toxic to aquatic Me. Harmful to aquatic Me with long listing effects.	Causes any irritation May cause an allergic skin reaction Harmful to aquatic tife
Precautionary statemen	115	and the second s
Prevention	: Wear protective gloves, Wear eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash hands thoreughly after handling. Contaminated work clothing should not be allowed out of the workplace	Wear protective gloves. Avoid release to the environment, Avoid breathing vapor, Wash hands theroughly after handling. Contaminated work clothing should not be allowed out of the workplace
Response	per a surre de la constant de	and the second

SAFETY DATA SHEET

ECOLAR

QUESTIONS?



History of Global Harmonization Project

- In 1992, a goal was set to establish a world wide system for hazard communication – referred to as the Global Harmonizing System
- GHS to Include
 - hazard classification
 - compatible labeling system, including safety data sheets and
 - easily understandable symbols

Global Harmonization Project

- Rationale for U.S. adoption of GHS:
 - American companies are major importers of chemicals as well as exporters, and missing or incomplete information on chemicals we import may lead to reduced protections for workers and public.
 - Large number of varying requirements around the world create potential barriers to trade in chemicals, particularly for small businesses.
 - A harmonized and consistent approach has benefits both in terms of protection and trade.

OSHA Rulemaking – Old Rule

- HazCom has been in effect for over 25 years; foundation for building a chemical health and safety program in workplace
- Addresses needs of employers/employees to obtain information about chemicals, and worker "right-to-know" about hazards
- Requires chemical manufacturers and importers to evaluate hazards and provide info to customers through labels, data sheets and worker training programs
- Also addresses trade secret protection
- Requires all chemicals to be evaluated and incorporates wide range of hazardous effects to be addressed.
- OSHA claims HazCom has resulted in 40% decrease in injuries/illnesses due to chemical exposures