

# Safety Data Sheet A440LXX

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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## **SECTION 1: Identification**

## Identification

Product form : Mixture

Product name C&H 440LF Low Foam Cleaner

Product code A440LXX-001-001

#### Relevant identified uses of the substance or mixture and uses advised against

No additional information available

#### Details of the supplier of the safety data sheet

Seacole-CRC, LLC 13505 Industrial Park Blvd Plymouth, MN 55441 - USA T 763-582-1140 www.Seacole.com

#### **Emergency telephone number**

Emergency number : Infotrac - 800-535-5053

## SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### **GHS-US** classification

Skin Corr. 1A H314 Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

#### 22 Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



**GHS05** 

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

P260 - Do not breathe mist, spray Precautionary statements (GHS-US)

P264 - Wash clothing, hands, forearms and face thoroughly after handling P280 - Wear eye protection, face protection, protective clothing, protective gloves P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor, a POISON CENTER

P321 - Specific treatment (see a doctor, a POISON CENTER on this label)

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards

No additional information available

## **Unknown acute toxicity (GHS US)**

Not applicable

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## SECTION 3: Composition/Information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Potassium Hydroxide	(CAS No) 1310-58-3	5 - 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
2-Butoxyethanol	(CAS No) 111-76-2	3 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315
Potassium Silicate	(CAS No) 1312-76-1	1 - 3	Acute Tox. 4 (Oral), H302

Full text of hazard classes and H-statements : see section 16

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately

call a poison center or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a poison center or doctor/physician.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after eye contact : Causes serious eye damage.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

Reactivity : Thermal decomposition generates : Corrosive vapors.

## 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during

pregnancy/while nursing.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Potassium Hydroxide (1310-58-3)		
ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
ACGIH	Remark (ACGIH)	URT, eye, & skin irr

## Potassium Silicate (1312-76-1)

Not applicable

2-Butoxyethanol (111-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Colorless Odor characteristic : No data available Odor threshold : No data available pΗ pH solution 12.1 (3%) : No data available Melting point : No data available Freezing point

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Boiling point : No data available

Flash point : > 200 °F

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable.

Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available

Specific gravity / density : 1.09

Solubility : No data available Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available : No data available Oxidizing properties

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapors.

## 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium Hydroxide (1310-58-3)	
LD50 oral rat	333 mg/kg (Rat; Equivalent or similar to OECD 425; Experimental value)
ATE US (oral)	333.000 mg/kg body weight

2-Butoxyethanol (111-76-2)		
LD50 oral rat	1746 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)	
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	
LC50 inhalation rat (mg/l)	2.2 mg/l/4h (Rat; Experimental value)	
LC50 inhalation rat (ppm)	450 ppm/4h (Rat; Experimental value)	
ATE US (oral)	1746.000 mg/kg body weight	
ATE US (dermal)	1100.000 mg/kg body weight	
ATE US (gases)	450.000 ppmV/4h	
ATE US (vapors)	2.200 mg/l/4h	
ATE US (dust, mist)	2.200 mg/l/4h	

Skin corrosion/irritation : Causes severe skin burns and eye damage.

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Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

2-Butoxyethanol (111-76-2)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after eye contact : Causes serious eye damage.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Potassium Hydroxide (1310-58-3)		
LC50 fish 2	80 mg/l (LC50; 96 h; Gambusia affinis; Static system; Fresh water)	
2-Butoxyethanol (111-76-2)		
LC50 fish 1	1474 ppm (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss; Static system; Fresh water; Experimental value)	
EC50 Daphnia 1	1550 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
Threshold limit algae 1	911 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)	
Threshold limit algae 2	88 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)	

## 12.2. Persistence and degradability

&H 440LF Low Foam Cleaner		
Persistence and degradability	Not established.	
Potassium Hydroxide (1310-58-3)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

# 2-Butoxyethanol (111-76-2) Persistence and degradability

Persistence and degradability Readily biodegradable in water. Low potential for adsorption in soil. Photooxidation in the air.

## 12.3. Bioaccumulative potential

C&H 440LF Low Foam Cleaner		
Bioaccumulative potential Not established.		
Potassium Hydroxide (1310-58-3)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
2-Butoxyethanol (111-76-2)		
Log Pow	0.81 (Test data; 20 °C)	
Bioaccumulative potential	re potential Low potential for bioaccumulation (Log Kow < 4).	

## 12.4. Mobility in soil

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2-Butoxyethanol (111-76-2)	
Surface tension	0.065 N/m (20 °C; Calculated value)

#### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : NA1760 Compounds, cleaning liquid (Potassium Hydroxide), 8, II

UN-No.(DOT) : NA1760

Proper Shipping Name (DOT) : Compounds, cleaning liquid

Potassium Hydroxide

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : II - Medium Danger Hazard labels (DOT) : 8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

: 202: 242

: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name

: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are

not authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized N37 - This material may be shipped in an integrally-lined fiber drum (1G) which meets the general packaging requirements of subpart B of part 173 of this subchapter, the requirements of part 178 of this subchapter at the packing group assigned for the material and to any other special provisions of column 7 of the 172.101 table

T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP

DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

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DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Emergency Response Guide (ERG) Number : 154

Other information : No supplementary information available.

**TDG** 

Transport by sea

Air transport

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

	Potassium Hydroxide (1310-58-3)	
	Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Not subject to reporing requirements of the United States SARA Section 313		States SARA Section 313

CERCLA RQ 1000 lb

## Potassium Silicate (1312-76-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 2-Butoxyethanol (111-76-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 313 - Emission Reporting 100 %

#### 15.2. International regulations

## **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

## 15.3. US State regulations

## Potassium Hydroxide (1310-58-3)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

#### 2-Butoxyethanol (111-76-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

## **SECTION 16: Other information**

Revision date : 09/20/2016 Other information : None.

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#### Full text of H-phrases:

t of it pinadoo.		
Acute toxicity (inhalation:vapour) Category 3		
Acute toxicity (dermal) Category 4		
Acute toxicity (oral) Category 4		
Serious eye damage/eye irritation Category 1		
Flammable liquids Category 4		
Skin corrosion/irritation Category 1A		
Skin corrosion/irritation Category 2		
Combustible liquid		
Harmful if swallowed		
Harmful in contact with skin		
Causes severe skin burns and eye damage		
Causes skin irritation		
Causes serious eye damage		
Toxic if inhaled		

SDS US (GHS HazCom 2012)

The information contained herein is based upon data believed to be reliable. SEACOLE-CRC, LLC provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. SEACOLE-CRC, LLC knows of no medical condition, other than those noted on this safety data sheet, which are generally recognized as being aggravated by exposure to this product.

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