### SAFETY DATA SHEET

M32415 - ANSI - EN



# **CAUSTIC SODA LIQUID (ALL GRADES)**

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

# SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification: Occidental Chemical Corporation

5005 LBJ Freeway P.O. Box 809050 Dallas, TX 75380-9050 1-800-752-5151

24 Hour Emergency Telephone

Number:

1-800-733-3665 or 1-972-404-3228 (USA); CANUTEC (Canada): 1-613-996-6666; CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186

To Request an SDS: MSDS@oxy.com or 1-972-404-3245

**Customer Service:** 1-800-752-5151 or 1-972-404-3700

Product Identifier: CAUSTIC SODA LIQUID (ALL GRADES)

**Trade Name:** Caustic Soda Diaphragm Grade 7%, 10%, 15%, 18%, 18.5%, 20%, 25%, 30%,

35%, 40%, 50%, Caustic Soda Membrane 6%, 7%, 18%, 20%, 25%, 30%, 48%, 50%, 50% Caustic Soda Membrane OS, 50% Caustic Soda Diaphragm OS, Caustic Soda Low Salt 50%, Membrane Blended, 50% Caustic Soda Diaphragm

(West Coast), Membrane Cell Liquor, Caustic Soda Food Grade

Synonyms: Sodium hydroxide solution; Liquid Caustic; Lye Solution; Caustic; Lye; Soda Lye;

Secondary Caustic Soda Liquids

**Product Use:** Pulp Industry, Metal finishing, Cleaner, Process chemical, Petroleum Industry,

Food Application

Uses Advised Against: None identified

**SDS No.:** M32415

### **CAUSTIC SODA LIQUID (ALL GRADES)**

SDS Revision Date: 23-May-2017

# **SECTION 2. HAZARDS IDENTIFICATION**

**OSHA REGULATORY STATUS:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### **EMERGENCY OVERVIEW:**

Colorless to slightly colored

Physical State: Liquid

**Appearance:** Clear to opaque

Odorless

Signal Word: <u>DANGER</u>

MAJOR HEALTH HAZARDS: CORROSIVE. CAUSES SERIOUS EYE DAMAGE. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION. EFFECTS OF CONTACT OR INHALATION MAY BE DELAYED.

**PHYSICAL HAZARDS:** MAY BE CORROSIVE TO METALS. Mixing with water, acid or incompatible materials may cause splattering and release of heat. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated.

**ECOLOGICAL HAZARDS:** This material has exhibited moderate toxicity to aquatic organisms. Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters.

**PRECAUTIONARY STATEMENTS:** Do not get in eyes, on skin, or on clothing. Wear eye protection, face protection, protective gloves. Do not breathe mist, vapors, or spray. Do not ingest. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling- exposure can cause burns which are not immediately painful or visible.

**ADDITIONAL HAZARD INFORMATION:** This material is corrosive. It may cause severe burns and permanent damage to any tissue with which it comes into contact. Toxicity may be delayed, and may not be readily visible. To treat contacted tissue, flush with water to dilute. There is no specific antidote. Significant exposures must be referred for medical attention immediately.

#### **GHS CLASSIFICATION:**

GHS: PHYSICAL HAZARDS:	Corrosive to Metals  Mixing with water may cause splattering and release of heat
GHS: CONTACT HAZARD - SKIN:	Category 1B - Causes severe skin burns and eye damage
GHS: CONTACT HAZARD - EYE:	Category 1 - Causes serious eye damage

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

GHS: TARGET ORGAN TOXICITY (SINGLE	Category 3 - May cause respiratory irritation
EXPOSURE):	
HAZARDOUS TO AQUATIC ENVIRONMENT - ACUTE	Category 3 - Harmful to aquatic life
HAZARD:	
GHS: SUPPLEMENTAL HAZARD:	Mixing with water may cause splattering and release of
	heat

**UNKNOWN ACUTE TOXICITY:** 100% of the mixture consists of ingredient(s) of unknown toxicity. There is no acute toxicity data available for this product.

GHS SYMBOL: Corrosive, Exclamation mark



GHS SIGNAL WORD: DANGER

#### **GHS HAZARD STATEMENTS:**

#### GHS - Physical Hazard Statement(s)

May be corrosive to metals

#### **GHS - Health Hazard Statement(s)**

- · Causes serious eye damage
- · Causes severe skin burns and eye damage
- May cause respiratory irritation

#### GHS - Precautionary Statement(s) - Prevention

- · Do not breathe mist, vapors, or spray
- Wear protective gloves, protective clothing, eye, and face protection
- · Wash thoroughly after handling
- Keep only in original container
- · Use only outdoors or in a well-ventilated area

### GHS - Precautionary Statement(s) - Response

- IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- 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 INHALED: Remove person to fresh air and keep comfortable for breathing
- Immediately call a POISON CENTER or doctor/physician
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)

SDS No.: M32415 SDS Revision Date: 23-May-2017

· Absorb spillage to prevent material damage

#### GHS - Precautionary Statement(s) - Storage

- · Store locked up
- Store in a well-ventilated place. Keep container tightly closed
- Store in corrosive resistant and NON-ALUMINUM container with a resistant inner liner (NOTE: flammable hydrogen gas may be generated if aluminum container and/or aluminum fittings are used)

#### GHS - Precautionary Statement(s) - Disposal

• Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

#### **Hazards Not Otherwise Classified (HNOC)**

Mixing with water may cause splattering and release of heat

#### **Additional Hazard Information**

Mixing with water may cause splattering and release of heat

See Section 11: TOXICOLOGICAL INFORMATION

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Component	Percent [%]	CAS Number
Water	48.5 - 94.5	7732-18-5
Sodium Hydroxide	5.5 - 51.5	1310-73-2
Sodium Chloride	0 - 35	7647-14-5

Notes: All hazardous and non-hazardous components of product composition are listed.

### **SECTION 4. FIRST AID MEASURES**

INITIAL ATION. If inhelation of mista years or aprovessory and adverse effects recult remove to uncentaminate

**INHALATION:** If inhalation of mists, vapors, or spray occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY. There is no specific antidote, treat symptomatically.

**SKIN CONTACT:** Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.

**EYE CONTACT:** Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present and easy to do. Continue rinsing. GET MEDICAL ATTENTION IMMEDIATELY. Washing eyes within several seconds is essential to achieve maximum effectiveness.

**INGESTION:** If swallowed, do not induce vomiting. For definite or probable ingestion, do not administer oral fluids. If vomiting occurs spontaneously, keep airway clear. Monitor airway. Volume resuscitation (IV fluids) and circulatory support (CPR) may be required. Never give anything by mouth to an unconscious or convulsive person. GET

SDS No.: M32415 SDS Revision Date: 23-May-2017

MEDICAL ATTENTION IMMEDIATELY.

### Most Important Symptoms/Effects (Acute and Delayed):

#### **Acute Symptoms/Effects:**

**Inhalation (Breathing):** Respiratory System Effects: Exposure to airborne material may cause irritation, redness of upper and lower airways, coughing, laryngeospasm, shortness of breath, bronchoconstriction, and possible pulmonary edema. Severe and permanent scarring may occur. Pulmonary edema may develop several hours after a severe acute exposure. Aspiration of this material may cause the same conditions.

**Skin:** Skin Corrosion. Exposure to skin may cause redness, itching, irritation, swelling, burns (first, second, or third degree), liquefaction of skin, and damage to underlying tissues (deep and painful wounds).

**Eye:** Serious Eye Damage. Eye exposures may cause eye lid burns, conjunctivitis, corneal edema, corneal burn, corneal perforation, damage to internal contents of the eye, permanent visual defects, and blindness and/or loss of the eye.

**Ingestion (Swallowing):** Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

### **Delayed Symptoms/Effects:**

Skin: Repeated and prolonged skin contact may cause a chronic dermatitis.

Interaction with Other Chemicals Which Enhance Toxicity: None known.

**Medical Conditions Aggravated by Exposure:** May aggravate preexisting conditions such as: eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin; and respiratory conditions including asthma and other breathing disorders.

**Protection of First-Aiders:** Protect yourself by avoiding contact with this material. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Do not ingest. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

**Notes to Physician:** Medical observation and assessment is recommended for all ingestions, all eye exposures, and symptomatic inhalation and dermal exposures. For symptomatic ingestion, do not administer oral fluids and consider investigation by endoscopy, X-ray, or CT scan. Esophageal perforation, airway compromise, hypotension, and shock are possible. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation. Surgical intervention may be required.

# **SECTION 5. FIRE-FIGHTING MEASURES**

**Fire Hazard:** Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. May react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which can form explosive mixtures in air.

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire

**Fire Fighting:** Move container from fire area if it can be done without risk. Cool containers with water. Do not apply water directly on this product. Heat is generated when mixed with water. Wear NIOSH approved positive-pressure

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

self-contained breathing apparatus operated in pressure demand mode. Avoid contact with skin.

Component	Immediately Dangerous to Life/ Health (IDLH)
Sodium Hydroxide	10 mg/m³ IDLH
1310-73-2	-

**Hazardous Combustion Products:** Sodium hydroxide fumes can be generated by thermal decomposition at elevated temperatures

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Lower Flammability Level (air): Not flammable

Upper Flammability Level (air): Not flammable

Flash point: Not flammable

Auto-ignition Temperature: Not applicable

**GHS: PHYSICAL HAZARDS:** 

- Corrosive to Metals

- Mixing with water may cause splattering and release of heat

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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#### **Personal Precautions:**

Do not get in eyes, on skin or on clothing. Avoid breathing mist, vapor, or spray. Do not ingest. Wear appropriate personal protective equipment recommended in Section 8 of the SDS.

#### **Environmental Precautions:**

Keep out of water supplies and sewers. Do not flush into surface water or sanitary sewer system. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

#### Methods and Materials for Containment and Cleaning Up:

In case of spill or leak, stop the leak as soon as possible, if safe to do so. Completely contain spilled materials with dikes, sandbags, etc. Shovel dry material into suitable container. Liquid material may be removed with a vacuum truck. Remaining material may be diluted with water and neutralized with dilute acid, then absorbed and collected. Flush spill area with water, if appropriate.

#### **Additional Disaster Prevention Measures:**

No information available.

# **SECTION 7. HANDLING AND STORAGE**

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

#### **Precautions for Safe Handling:**

Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not ingest. Do not eat, drink or smoke in areas where this material is used. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. NEVER add water to product. When mixing, slowly add to water to minimize heat generation and spattering.

#### Safe Storage Conditions:

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

#### Incompatibilities/ Materials to Avoid:

Acids and halogenated compounds, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys, Releases heat when diluted in water

#### **GHS: PHYSICAL HAZARDS:**

- Corrosive to Metals
- Mixing with water may cause splattering and release of heat

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Regulatory Exposure Limit(s):** Listed below for the product components that have regulatory occupational exposure limits (OEL's).

 Component
 OSHA Final PEL TWA
 OSHA Final PEL STEL
 OSHA Final PEL STEL

 Sodium Hydroxide 1310-73-2
 2 mg/m³
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 Sodium Chloride
 ---- ---- ----

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

#### **NON-REGULATORY EXPOSURE LIMIT(S):**

• Listed below for the product components that have non-regulatory occupational exposure limits (OEL's)

Component	ACGIH TWA	ACGIH STEL	ACGIH Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Sodium Hydroxide			2 mg/m <sup>3</sup>			2 mg/m <sup>3</sup>

<sup>-</sup> The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

<sup>-</sup> The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

**ENGINEERING CONTROLS:** Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT:

**Eye Protection:** Wear chemical safety goggles with a face shield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin and Body Protection:** Wear protective clothing to minimize skin contact. Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Always place pants legs over boots. Contaminated clothing should be removed, then discarded or laundered. Discard contaminated leather goods.

**Hand Protection:** Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

#### **Protective Material Types:**

Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Tyvek®, Tychem®

**Respiratory Protection:** A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Component	Immediately Dangerous to Life/ Health (IDLH)
Sodium Hydroxide	10 mg/m³ IDLH
1310-73-2	

**HYGIENE MEASURES:** Handle in accordance with good industrial hygiene and safety practices. Wash hands and affected skin immediately after handling, before breaks, and at the end of the workday. When using do not eat or drink. When using do not smoke.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Liquid

**Appearance:** Clear to opaque

Color: Colorless to slightly colored

Odor: Odorless

Odor Threshold [ppm]: No data available.

Molecular Weight: 40.01 Molecular Formula: NaOH

**Decomposition Temperature:** No data available

Boiling Point/Range: 215 - 291°F (102 - 144°C)
Freezing Point/Range: -26 to 59°F (-32 to 15 °C).
Vapor Pressure: 13 - 135 mmHg @ 60 °C
Vapor Density (air=1): No data available

Relative Density/Specific Gravity 1.05 – 1.56 @ 15.6 °C

(water=1):

**Density:** 8.8 - 13.0 lbs/gal @ 15.6 °C

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

Water Solubility: 100%

pH: 14.0 (theoretical value of 7.5% solution)

Volatility:

Evaporation Rate (ether=1):

Partition Coefficient

No data available
No data available
No data available

(n-octanol/water):

Flash point:

Flammability (solid, gas):

Lower Flammability Level (air):

Upper Flammability Level (air):

Auto-ignition Temperature:

Not flammable
Not applicable

Viscosity: About 24cp for 50% solution at 40 °C (104 °F)

### SECTION 10. STABILITY AND REACTIVITY

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Chemical Stability: Stable at normal temperatures and pressures.

**Reactivity:** Soluble in water, releasing heat sufficient to ignite combustibles. Reacts with metals, and may form hydrogen gas.

**Possibility of Hazardous Reactions:** Mixing with water, acid, or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

Conditions to Avoid: (e.g., static discharge, shock, or vibration) -. None known.

**Incompatibilities/ Materials to Avoid:** Acids and halogenated compounds, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys, Releases heat when diluted in water.

Hazardous Decomposition Products: Toxic fumes of sodium oxide

Hazardous Polymerization: Will not occur.

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# **SECTION 11. TOXICOLOGICAL INFORMATION**

IRRITATION DATA: PRIMARY SKIN IRRITATION: Severe Irritation, Corrosive (rabbit, 24 hr)

PRIMARY EYE IRRITATION: Severe Irritation, Corrosive (rabbit, 24 hr)

#### **TOXICITY DATA:**

PRODUCT TOXICITY DATA: CAUSTIC SODA LIQUID (ALL GRADES)

LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
No reliable data available	No reliable data available	No data available

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

#### **POTENTIAL HEALTH EFFECTS:**

**Eye contact:** Corrosive. Causes serious eye damage which can result in: severe irritation, pain

and burns, and permanent damage including blindness.

**Skin contact:** Corrosive. Causes severe skin burns. Prolonged or repeat skin exposures can

result in dermatitis.

**Inhalation:** Corrosive. Inhalation injury may result from ingestion and/or aspiration of this

material. May cause severe irritation of the respiratory tract with potential airway compromise, coughing, choking, pain, and burns of the mucous membrane and respiratory system. This material can be extremely destructive to the tissue of the mucus membranes and respiratory system. Aspiration may cause chemical

pneumonitis, pulmonary edema, damage to lung tissue, death.

**Ingestion:** Corrosive. If swallowed, may cause severe oral and esophageal, mucus

membrane, and gastrointestinal burns and possible perforation. If swallowed, may

pose a lung aspiration hazard during vomiting.

**Chronic Effects:** Repeated or prolonged skin contact may result in dermatitis.

#### SIGNS AND SYMPTOMS OF EXPOSURE:

This material may cause severe burns and permanent damage to any tissue with which it comes into contact. It can cause serious burns and extensive tissue destruction resulting in liquefaction, necrosis and/or perforation. Signs and symptoms of exposure vary, and are dependent on the route of exposure, degree of exposure, and duration of exposure.

**Inhalation (Breathing):** Respiratory System Effects: Exposure to airborne material may cause irritation, redness of upper and lower airways, coughing, laryngeospasm, shortness of breath, bronchoconstriction, and possible pulmonary edema. Severe and permanent scarring may occur. Pulmonary edema may develop several hours after a severe acute exposure. Aspiration of this material may cause the same conditions.

**Skin:** Skin Corrosion. Exposure to skin may cause redness, itching, irritation, swelling, burns (first, second, or third degree), liquefaction of skin, and damage to underlying tissues (deep and painful wounds).

**Eye:** Serious Eye Damage. Eye exposures may cause eye lid burns, conjunctivitis, corneal edema, corneal burn, corneal perforation, damage to internal contents of the eye, permanent visual defects, and blindness and/or loss of the eye.

**Ingestion (Swallowing):** Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

#### TOXICITY:

When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucus membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact.

Interaction with Other Chemicals Which Enhance Toxicity: None known.

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

#### **GHS HEALTH HAZARDS:**

GHS: CONTACT HAZARD - EYE: Category 1 - Causes serious eye damage

GHS: CONTACT HAZARD - SKIN: Category 1B - Causes severe skin burns and eye damage.

Skin Absorbent / Dermal Route? No.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure): Category 3 - Respiratory Irritation

### **SECTION 12. ECOLOGICAL INFORMATION**

#### **ECOTOXICITY DATA:**

#### Fish Toxicity:

LC50 Brook trout: 25 ppm/24 hr LC50 King salmon: 48 ppm

#### **Aquatic Toxicity:**

This material has exhibited moderate toxicity to aquatic organisms.

Data provided are for sodium hydroxide

#### **Invertebrate Toxicity:**

EC50 Daphnia magna: 100 ppm EC50 Shrimp: 33 - 100 ppm/48 hr. EC50 Cockle: 330 - 1000 ppm/48 hr.

#### **FATE AND TRANSPORT:**

**BIODEGRADATION:** This material is inorganic and not subject to biodegradation.

**PERSISTENCE:** This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material is believed to exist in the disassociated state in the environment.

**BIOCONCENTRATION:** This material is not expected to bioconcentrate in organisms.

BIOACCUMULATIVE POTENTIAL: Does not bioaccumulate.

MOBILITY IN SOIL: No data available.

<u>ADDITIONAL ECOLOGICAL INFORMATION:</u> This material has exhibited slight toxicity to terrestrial organisms. This material has exhibited moderate toxicity to aquatic organisms.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

Waste from material:

Reuse or reprocess, if possible. May be subject to disposal regulations. Dispose in accordance with all applicable regulations.

#### **Container Management:**

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

### **SECTION 14. TRANSPORT INFORMATION**

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#### LAND TRANSPORT

U.S. DOT 49 CFR 172.101:

UN NUMBER: UN1824

PROPER SHIPPING NAME: Sodium Hydroxide Solution

HAZARD CLASS/ DIVISION: 8
PACKING GROUP: ||
LABELING REQUIREMENTS: 8

RQ (lbs): RQ 1000 lbs. (Sodium Hydroxide)

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:** 

UN NUMBER: UN1824

SHIPPING NAME: Sodium hydroxide solution

CLASS OR DIVISION: 8
PACKING/RISK GROUP: ||
LABELING REQUIREMENTS: 8

MARITIME TRANSPORT (IMO / IMDG) :

UN NUMBER: UN1824

PROPER SHIPPING NAME: Sodium hydroxide solution

HAZARD CLASS / DIVISION: 8
Packing Group: ||
LABELING REQUIREMENTS: 8

## **SECTION 15. REGULATORY INFORMATION**

### **U.S. REGULATIONS**

#### **OSHA REGULATORY STATUS:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

If a release is reportable under CERCLA section 103, notify the state emergency response commission and local emergency planning committee. In addition, notify the National Response Center at (800) 424-8802 or (202) 426-2675.

Component	CERCLA Reportable Quantities:
Sodium Hydroxide	1000 lb (final RQ)

#### SARA EHS Chemical (40 CFR 355.30)

No components are listed

### EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):

Acute Health Hazard

#### **EPCRA SECTION 313 (40 CFR 372.65):**

No components are listed

#### **DEPARTMENT OF HOMELAND SECURITY (DHS)- Chemical Facility Anti-Terrorism Standards (6 CFR 27):**

No components in this material are regulated under DHS

#### OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):

Not regulated

FDA: This material has Generally Recognized As Safe (GRAS) status under specific U.S. Food and Drug Administration (FDA) regulations. Additional information is available from the Code of Federal Regulations which is accessible on the FDA's website. Only food grade product is guaranteed to be produced under all current Good Manufacturing Practices (cGMP) requirements as defined by the FDA. Food grade product is produced in a facility that is accredited as a Safe Quality Food (SQF) Level 2 Facility, certified under the Global Food Safety Initiative (GFSI), and meets the Food Chemical Codex (FCC) requirements.

#### **NATIONAL INVENTORY STATUS**

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

**TSCA 12(b):** This product is not subject to export notification.

Canadian Chemical Inventory: All components of this product are listed on either the DSL or the NDSL.

Component	DSL	NDSL
Sodium Hydroxide 1310-73-2	Listed	Not Listed
Sodium Chloride 7647-14-5	Listed	Not Listed

#### STATE REGULATIONS

#### California Proposition 65:

This product is not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. For additional information, contact OxyChem Technical Services at 1-800-733-1165.

SDS No.: M32415 SDS Revision Date: 23-May-2017

Component	Proposition 65 Cancer	Proposition 65 CRT List - Male	Proposition 65 CRT List - Female	Right to Know Hazardous	Hazardous	New Jersey Special Health Hazards Substance List
Sodium Hydroxide 1310-73-2	Not Listed	Not Listed	Not Listed	Listed	1706	corrosive

Component	Environmental	Substance List	to Know Special Hazardous	to Know	Rhode Island Right to Know Hazardous Substance List
Sodium Hydroxide	Not Listed	Listed	Not Listed	Present	Listed

#### **CANADIAN REGULATIONS**

• This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

#### WHMIS - Classifications of Substances:

E - Corrosive material

### **SECTION 16. OTHER INFORMATION**

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 23-May-2017

#### Reason for Revision:

- Trade Name has been added: SEE SECTION 1
  Updated Product Use information: SEE SECTION 1
- Format change Section 6
- Ecological Information has been modified: SEE SECTION 12
- Updated FDA Statement: SEE SECTION 15
- Revised California Proposition 65 Statement: SEE SECTION 15
- Updated Canadian Regulatory information: SEE SECTION 15

### **IMPORTANT:**

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**SDS No.**: M32415 **SDS Revision Date**: 23-May-2017

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

**End of Safety Data Sheet**