SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade

Synonyms: Caustic Soda

Intended Use of the Product

Neutralization of acids, pH control, gas scrubbing, catalyst. Used in manufacture of pulp and paper, petroleum and natural gas, soap and detergents and cellulosic. Also used in water treatment, food processing, mining and metal processing.

Name, Address, and Telephone of the Responsible Party

Manufacturer
CHEMTRADE LOGISTICS INC.
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
For SDS Info: (416) 496-5856
www.chemtradelogistics.com

Emergency Telephone Number

Emergency Number

Canada/US: CHEMTREC +1-800-424-9300
INTERNATIONAL: +1-703-741-5970
Chemtrade Emergency Contact: (866) 416-4404
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification

| Met. Corr. 1 | H290 |
| Skin Corr. 1A | H314 |
| Eye Dam. 1 | H318 |
| Aquatic Acute 3 | H402 |

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

Label Elements

GHS Labeling

Hazard Pictograms

Signal Word: Danger

Hazard Statements

H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H402 - Harmful to aquatic life.

Precautionary Statements

P234 - Keep only in original container.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
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.
Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade
Safety Data Sheet

Rinse skin with water.
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 POISON CENTER or doctor.
P321 - Specific treatment (see section 4 on this SDS).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards
Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown acute toxicity
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Product Identifier</th>
<th>%*</th>
<th>GHS Ingredient Classification</th>
</tr>
</thead>
</table>
| Sodium hydroxide | (CAS-No.) 1310-73-2 | 30 - 60* | Met. Corr. 1, H290  
Skin Corr. 1A, H314  
Eye Dam. 1, H318  
Aquatic Acute 3, H402 |
| Water | (CAS-No.) 7732-18-5 | 40 - 70 | Not classified |

Full text of H-phrases: see section 16
*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).
*The actual concentration of the ingredient(s) is withheld as a trade secret in accordance with Regulations Amending the Hazardous Products Regulations (HPR) SOR/2018-68 and 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

Description of 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).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed
General: Corrosive to eyes, respiratory system and skin.

Inhalation: May be corrosive to the respiratory tract.

Skin Contact: Causes severe irritation which will progress to chemical burns.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed
If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.
SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media
- Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.
- Unsuitable Extinguishing Media: Halogenated compounds. Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture
- Fire Hazard: Not flammable.
- Explosion Hazard: Product is not explosive.
- Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Advice for Firefighters
- Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
- Firefighting Instructions: Use water spray or fog for cooling exposed containers.
- Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
- Hazardous Combustion Products: Sodium oxides.
- Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections
- Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
- General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.
- For Non-Emergency Personnel
  - Protective Equipment: Use appropriate personal protective equipment (PPE).
- For Emergency Personnel
  - Protective Equipment: Equip cleanup crew with proper protection.
  - Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

Environmental Precautions
- Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up
- For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.
  - Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections
- See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, or spray.
- Additional Hazards When Processed: May be corrosive to metals. May release corrosive vapors.
- Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities
- Technical Measures: Comply with applicable regulations.
- Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.
Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade

Safety Data Sheet


Specific End Use(s)
Neutralization of acids, pH control, gas scrubbing, catalyst. Used in manufacture of pulp and paper, petroleum and natural gas, soap and detergents and cellulosic. Also used in water treatment, food processing, mining and metal processing.

SECTION 8: EXPOSURE CONTROLS/PERSOANAL PROTECTION

Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Sodium hydroxide (1310-73-2)

Mexico: OEL Ceiling (mg/m³) 2 mg/m³
USA ACGIH: ACGIH Ceiling (mg/m³) 2 mg/m³
USA OSHA: OSHA PEL (TWA) (mg/m³) 2 mg/m³
USA NIOSH: NIOSH REL (ceiling) (mg/m³) 2 mg/m³
USA IDLH: US IDLH (mg/m³) 10 mg/m³
Alberta: OEL Ceiling (mg/m³) 2 mg/m³
British Columbia: OEL Ceiling (mg/m³) 2 mg/m³
Manitoba: OEL Ceiling (mg/m³) 2 mg/m³
New Brunswick: OEL Ceiling (mg/m³) 2 mg/m³
Newfoundland & Labrador: OEL Ceiling (mg/m³) 2 mg/m³
Nova Scotia: OEL Ceiling (mg/m³) 2 mg/m³
Nunavut: OEL Ceiling (mg/m³) 2 mg/m³
Northwest Territories: OEL Ceiling (mg/m³) 2 mg/m³
Ontario: OEL Ceiling (mg/m³) 2 mg/m³
Prince Edward Island: OEL Ceiling (mg/m³) 2 mg/m³
Québec: PLAFOND (mg/m³) 2 mg/m³
Saskatchewan: OEL Ceiling (mg/m³) 2 mg/m³
Yukon: OEL Ceiling (mg/m³) 2 mg/m³

Exposure Controls
Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.


Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear to white
Odor: None
Odor Threshold: Not available
Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade

Safety Data Sheet

SECTION 10: STABILITY AND REACTIVITY

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures and incompatible materials.


Hazardous Decomposition Products: Hydrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

pH: 14

Eye Damage/Irritation: Causes serious eye damage.

pH: 14

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Effects After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Effects After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Effects After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Effects After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

06/24/2019 EN (English US) SDS#: CHE-80265 5/9
Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade

Safety Data Sheet


LD50 and LC50 Data: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life.

Sodium hydroxide (1310-73-2)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
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<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])</td>
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<tr>
<td>EC50 Daphnia 1</td>
<td>40 mg/l</td>
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Persistence and Degradability

Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade

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<th>Endpoint</th>
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<td>Persistence and Degradability</td>
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Bioaccumulative Potential

Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade

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<th>Endpoint</th>
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<tbody>
<tr>
<td>Bioaccumulative Potential</td>
<td>Not established.</td>
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</table>

Mobility in Soil

Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>TRANSPORTATION CLASSIFICATION</th>
<th>DOT</th>
<th>TDG</th>
<th>IMDG</th>
<th>IATA</th>
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<td>UN1824</td>
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<td>SODIUM HYDROXIDE SOLUTION</td>
<td>SODIUM HYDROXIDE SOLUTION</td>
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<td>Transport Hazard Class(es)</td>
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<tr>
<td>Packing Group</td>
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<td>II</td>
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<td>Environmental Hazards</td>
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<td>Marine Pollutant: No</td>
<td>Marine Pollutant: No</td>
<td>Marine Pollutant: N/A</td>
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<td>Emergency Response</td>
<td>ERG Number: 154</td>
<td>ERAP Index: Not applicable</td>
<td>EMS: F-A, S-B</td>
<td>ERG code (IATA): 8L</td>
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<td>Additional Information</td>
<td>Not applicable</td>
<td>Not applicable</td>
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<td>Not applicable</td>
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SECTION 15: REGULATORY INFORMATION

US Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>CERCLA RQ</th>
<th>EPCRA 304 RQ</th>
<th>SARA 302 TPQ</th>
<th>SARA 313</th>
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<tr>
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<td>1000 lb</td>
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<td>Not applicable</td>
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SARA 311/312

Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade

Immediate (acute) health hazard

US TSCA Flags: Not present
Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade
Safety Data Sheet


**US State Regulations**

**California Proposition 65**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
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<tbody>
<tr>
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<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**State Right-To-Know Lists**

**Sodium hydroxide (1310-73-2)**

- U.S. - Massachusetts - Right To Know List - Yes
- U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
- U.S. - Pennsylvania - RTK (Right to Know) List - Yes

**Canadian Regulations**

**Sodium hydroxide (1310-73-2)**

- Listed on the Canadian DSL (Domestic Substances List)
- Not listed on the Canadian NDSL (Non-Domestic Substances List)

**International Inventories/Lists**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Australia AICS</th>
<th>Turkey CICR</th>
<th>Korea ECL</th>
<th>EU EINECS</th>
<th>EU ELINCS</th>
<th>EU SVHC</th>
<th>EU NLP</th>
<th>Mexico INSQ</th>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Chemical Name (CAS No.)</td>
<td>China IECSC</td>
<td>Japan ENS \ ISHL</td>
<td>Japan PDSCL</td>
<td>Japan PRTR</td>
<td>Philippines PICCS</td>
<td>New Zealand NZOIC</td>
<td>US TSCA</td>
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<tr>
<td>Sodium hydroxide (1310-73-2)</td>
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<td>Yes</td>
<td>No</td>
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</table>

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Date of Preparation or Latest Revision**: 06/24/2019

**Other Information**: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

**Revision Summary**

<table>
<thead>
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<th>Section</th>
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<tr>
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</tr>
<tr>
<td>11</td>
<td>Language modification</td>
<td>06/24/2019</td>
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**GHS Full Text Phrases:**

- **Aquatic Acute 3**: Hazardous to the aquatic environment - Acute Hazard Category 3
- **Eye Dam. 1**: Serious eye damage/eye irritation Category 1
- **Met. Corr. 1**: Corrosive to metals Category 1
- **Skin Corr. 1A**: Skin corrosion/irritation Category 1A
- **H290**: May be corrosive to metals
- **H314**: Causes severe skin burns and eye damage
- **H318**: Causes serious eye damage
- **H402**: Harmful to aquatic life
Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade

Safety Data Sheet


**NFPA 704**

<table>
<thead>
<tr>
<th>NFPA Health Hazard</th>
<th>3</th>
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<tbody>
<tr>
<td>NFPA Fire Hazard</td>
<td>0</td>
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<tr>
<td>NFPA Reactivity Hazard</td>
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</table>

**HMIS Rating**

<table>
<thead>
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<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
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<tr>
<td>Physical</td>
<td>0</td>
</tr>
<tr>
<td>PPE</td>
<td>See Section 8</td>
</tr>
</tbody>
</table>

**Abbreviations and Acronyms**

AICS – Australian Inventory of Chemical Substances

ACGIH – American Conference of Governmental Industrial Hygienists

AHHA – American Industrial Hygiene Association

ATE – Acute Toxicity Estimate

BCF – Bioconcentration factor

BEI - Biological Exposure Indices (BEI)

CAS No. - Chemical Abstracts Service number

CERCLA RQ - Comprehensive Environmental Response, Compensation, and

Liability Act - Reportable Quantity

CICR - Turkish Inventory and Control of Chemicals


EC50 - Median effective concentration

ECL - Korea Existing Chemicals List

EINECS - European Inventory of Existing Commercial Chemical Substances

ELINCS - European List of Notified Chemical Substances

EmS - IMDG Emergency Schedule Fire & Spillage

ENCs - Japanese Existing and New Chemical Substances Inventory

EPA – Environmental Protection Agency

EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know-Act – Reportable Quantity

ERAP Index – Emergency Response Assistance Plan Quantity Limit

ER50 - EC50 in Terms of Reduction Growth Rate

ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)

ERG No. - Emergency Response Guide Number

HCCL - Hazard Communication Carcinogen List

HMIS – Hazardous Materials Information System

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association – Dangerous Goods Regulations

IDLH - Immediately Dangerous to Life or Health

IECSC - Inventory of Existing Chemical Substances Produced or Imported in China

IMDG - International Maritime Dangerous Goods Code

INSQ - Mexican National Inventory of Chemical Substances

ISHL - Japan Industrial Safety and Health Law

LCS0 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level

LOEC - lowest-observed-effect Concentration

Log Pow - Octanol/water Partition Coefficient


NLAEL - No-Limit Adverse Effect Level

NLOEC - No-Limit Observed Effect Concentration

NOS - No Observed Significant Effect Concentration

NTP - National Toxicology Program

OEIS - Office of Environmental Information System

OSHA – Occupational Safety and Health Administration

PEL - Permissible Exposure Limits

PICCS - Philippine Inventory of Chemicals and Chemical Substances

PDSC - Principle Dangerous Substances Control

PPE – Personal Protective Equipment

PRTR - Japan Pollutant Release and Transfer Register

REL - Recommended Exposure Limit

SADT - Self Accelerating Decomposition Temperature

SARA - Superfund Amendments and Reauthorization Act

SARA 302 - Section 302, 40 CFR Part 355

SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories

SARA 313 - Section 313, 40 CFR Part 372

SRCL - Specifically Regulated Carcinogen List

SVHC – European Candidate List of Substance of Very High Concern

TDG – Transport Canada Transport of Dangerous Goods Regulations

TPQ - Threshold Planning Quantity

TSCA – United States Toxic Substances Control Act

TWA - Time Weighted Average

WEEL - Workplace Environmental Exposure Levels

Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA’S “Right to Know” (29 CFR 1910.1200) and Canada’s WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.
Sodium hydroxide, 32% solution, Membrane and Diaphragm Grade
Safety Data Sheet