SECTION 1: IDENTIFICATION

Product Identifier
- Product Form: Mixture
- Product Name: Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP

Intended Use of the Product
- Food and Pharmaceutical Ingredient. Food additive, acid neutralization, industrial use. For professional use only.
- REACH Registration Number: 01-2119457892-27-0213

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
- Canada: CANUTEC +1-613-996-6666 / 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:
  - 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
  - Precautionary Statements:
    - P234 - Keep only in original container.
    - P260 - Do not breathe dust.
    - 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.
    - 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).
Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP

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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 those with 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>
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</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>(CAS-No.) 1310-73-2</td>
<td>80 – 100’</td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 3, H402</td>
</tr>
<tr>
<td>Disodium carbonate</td>
<td>(CAS-No.) 497-19-8</td>
<td>0.1 - 5’</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>0.1 - 5</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16.

*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.

*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%).

**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:** Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

**Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 60 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Corrosive to respiratory tract. Causes severe skin burns and eye damage. Causes serious eye damage. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

**Inhalation:** Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

**Skin Contact:** Causes severe skin burns.

**Eye Contact:** Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva. Can cause blindness.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects. 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 you feel unwell, seek medical advice (show the label where possible).

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Dry powder, alcohol-resistant foam, water in large amounts, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.
**Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP**

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**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not flammable.

**Explosion Hazard:** May release flammable hydrogen gas on contact with some metals.

**Reactivity:** Reacts exothermically with (some) acids. Contact with metals may evolve flammable hydrogen gas. Reacts violently with water.

**Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. Do not allow run-off from fire-fighting to enter drains or water courses. Water may be ineffective to fight fire, but water should be used to keep exposed containers cool.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Hydrogen.

**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:** Avoid all contact with skin, eyes, or clothing. Avoid breathing dust.

**For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Eliminate ignition sources. Evacuate unnecessary personnel. Stop leak if safe to do so.

**Environmental Precautions**

Prevent entry to sewers and public waters.

**Methods and Materials for Containment and Cleaning Up**

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Recover the product by vacuuming, shoveling or sweeping. Minimize generation of dust. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered. Contact competent authorities after a spill.

**Reference to Other Sections**

See Section 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

---

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

Do not handle until all safety precautions have been read and understood. Do not breathe dust. Use appropriate personal protective equipment (PPE).

**Additional Hazards When Processed:** May be corrosive to metals.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store in original container or corrosive resistant and/or lined container. Keep/Store away from extremely high or low temperatures and incompatible materials. Storage areas should be periodically checked for corrosion and integrity.

**Incompatible Materials:** Metals, oxidizing agents, water, acids, aluminium, light metals and their alloys.

**Specific End Use(s)**

Food and Pharmaceutical Ingredient. Food additive, acid neutralization, industrial use. For professional use only.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL 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.

<table>
<thead>
<tr>
<th>Sodium hydroxide (1310-73-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mexico</strong></td>
</tr>
<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td><strong>USA ACGIH</strong></td>
</tr>
<tr>
<td>ACGIH Ceiling (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td><strong>USA OSHA</strong></td>
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<tr>
<td>OSHA PEL (TWA) (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td><strong>USA NIOSH</strong></td>
</tr>
<tr>
<td>NIOSH REL (ceiling) (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td><strong>USA IDLH</strong></td>
</tr>
<tr>
<td>US IDLH (mg/m³) 10 mg/m³</td>
</tr>
<tr>
<td><strong>Alberta</strong></td>
</tr>
<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td><strong>British Columbia</strong></td>
</tr>
<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
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<td><strong>Manitoba</strong></td>
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<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
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<td><strong>New Brunswick</strong></td>
</tr>
<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td><strong>Newfoundland &amp; Labrador</strong></td>
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<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
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<td><strong>Nova Scotia</strong></td>
</tr>
<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
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<td><strong>Nunavut</strong></td>
</tr>
<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td><strong>Northwest Territories</strong></td>
</tr>
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<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
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<td><strong>Ontario</strong></td>
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<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
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<td><strong>Prince Edward Island</strong></td>
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<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
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<td><strong>Québec</strong></td>
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<td>PLAFOND (mg/m³) 2 mg/m³</td>
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<tr>
<td><strong>Saskatchewan</strong></td>
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<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td><strong>Yukon</strong></td>
</tr>
<tr>
<td>OEL Ceiling (mg/m³) 2 mg/m³</td>
</tr>
</tbody>
</table>

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.

**Hand Protection:** Wear chemically resistant 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.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Solid</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Opaque White Solid</td>
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<tr>
<td>Odor</td>
<td>None</td>
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<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>13.5 (0.1M Solution)</td>
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<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
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<tr>
<td>Melting Point</td>
<td>360 °C (680 °F)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP
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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Reacts exothermically with (some) acids. Contact with metals may evolve flammable hydrogen gas. Reacts violently with water.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

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

**Incompatible Materials:** Metals, oxidizing agents, water, acids, aluminum, light metals and their alloys.

**Hazardous Decomposition Products:** None expected under normal conditions of use.

**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:** 13.5 (0.1M Solution)

**Eye Damage/Irritation:** Causes serious eye damage.

**pH:** 13.5 (0.1M Solution)

**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:** Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

**Symptoms/Effects After Skin Contact:** Causes severe skin burns.

**Symptoms/Effects After Eye Contact:** Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva. Can cause blindness.

**Symptoms/Effects After Ingestion:** Ingestion is likely to be harmful or have adverse effects. 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)**

**LD50 and LC50 Data:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate (497-19-8)</td>
<td>4090 mg/kg</td>
</tr>
</tbody>
</table>
Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP

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| LC50 Inhalation Rat | 2300 mg/m³ (Exposure time: 2 h) |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life. High pH (alkalinity) of product may be harmful to aquatic life.

- **Sodium hydroxide (1310-73-2)**
  - LC50 Fish 1: 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
  - EC50 Daphnia 1: 40 mg/l

- **Disodium carbonate (497-19-8)**
  - LC50 Fish 1: 300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
  - EC50 Daphnia 1: 265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
  - LC50 Fish 2: 310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

Persistence and Degradability

<table>
<thead>
<tr>
<th>Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and Degradability</td>
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<td>Not established.</td>
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Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative Potential</td>
</tr>
<tr>
<td>Not established.</td>
</tr>
</tbody>
</table>

- **Disodium carbonate (497-19-8)**
  - BCF Fish 1: (no bioaccumulation)

Mobility in Soil

Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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>Proper Shipping Name</td>
<td>SODIUM HYDROXIDE, SOLID</td>
<td>SODIUM HYDROXIDE, SOLID</td>
<td>SODIUM HYDROXIDE, SOLID</td>
<td>SODIUM HYDROXIDE, SOLID</td>
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<td>Packing Group</td>
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<td>II</td>
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<tr>
<td>Environmental Hazards</td>
<td>Marine Pollutant : No</td>
<td>Marine Pollutant : No</td>
<td>Marine Pollutant : No</td>
<td>Marine Pollutant: N/A</td>
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<tr>
<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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<tr>
<td>Additional Information</td>
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<td>Not applicable</td>
<td>Not applicable</td>
<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>
<td>Not applicable</td>
<td>Not applicable</td>
<td>No</td>
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</table>
Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP

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<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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</thead>
<tbody>
<tr>
<td>Sodium hydroxide (1310-73-2)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Disodium carbonate (497-19-8)</td>
<td>No</td>
<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

Disodium carbonate (497-19-8)
- U.S. - Massachusetts - Right To Know List - No
- U.S. - New Jersey - Right to Know Hazardous Substance List - No
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
- U.S. - Pennsylvania - RTK (Right to Know) List - No

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)

Disodium carbonate (497-19-8)
- 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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<tbody>
<tr>
<td>Sodium hydroxide (1310-73-2)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Disodium carbonate (497-19-8)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 01/03/2019
Sodium Hydroxide Pellets, ACS, NF/FCC, EP, JP, BP
Safety Data Sheet

Revision Summary

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Date Changed</th>
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<tbody>
<tr>
<td>3</td>
<td>Ingredient composition range</td>
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</table>

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).

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Aquatic Acute 3</th>
<th>Hazardous to the aquatic environment - Acute Hazard Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation Category 1A</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
</tbody>
</table>

NFPA 704

NFPA Health Hazard: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA Fire Hazard: 0 - Materials that will not burn under typical dire conditions.

NFPA Reactivity Hazard: 0 - Material that in themselves are normally stable, even under fire conditions.

HMIS Rating

Health: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability: 0 Minimal Hazard

Physical: 0 Minimal Hazard

PPE: See Section 8

Abbreviations and Acronyms

AICS – Australian Inventory of Chemical Substances
ACGIH – American Conference of Governmental Industrial Hygienists
AIHA – 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
ErC50 - EC50 in Terms of Reduction Growth Rate
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-observed-effect Concentration
Log Pow - Octanol/water Partition Coefficient
NOSIS - National Institute for Occupational Safety and Health
NLP - Europe No Longer Polymers List
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Oberved Effect Concentration
NZIOC - New Zealand Inventory of Chemicals
OSHA – Occupational Safety and Health Administration
PEL - Permissible Exposure Limits
PICCS - Philippine Inventory of Chemicals and Chemical Substances
PDSCL - Japan Poisonous and Deleterious Substances Control Law
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
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