



Safety Data Sheet (SDS)

Section 1: Identification

- **Product Name:** Heavy-Duty Drain & Concrete Cleaner
- **Synonyms:** Caustic Soda Drain Opener, Alkaline Cleaner
- **Recommended Uses:**
 - Unclogging drains
 - Cleaning and etching concrete surfaces
- **Restrictions:**
 - Not for food contact surfaces
 - Do not use on aluminum, tin, or other reactive metals
- **Manufacturer/Supplier:** Caribbean Aerosol and Packaging Solutions
- **Address:** 45 Taylor Street, Marabella, Trinidad and Tobago
- **Phone Number:** 1-868-265-7061
- **Email:** capsclancaribbean@gmail.com

Section 2: Hazard(s) Identification

- **GHS Classification:**
 - Corrosive to metals: Category 1
 - Skin corrosion: Category 1A
 - Serious eye damage: Category 1
 - Acute toxicity (oral): Category 4 (possible)
- **Signal Word:** Danger
- **Hazard Statements:**
 - H290: May be corrosive to metals
 - H302: Harmful if swallowed
 - H314: Causes severe skin burns and eye damage
 - Reacts exothermically with water and acids

- **Precautionary Statements:**
 - **Prevention:** Wear protective gloves, clothing, eye/face protection; do not breathe vapors; avoid contact with metals
 - **Response:** Rinse skin or eyes immediately with plenty of water for at least 15–20 minutes; call a physician; if ingested, do not induce vomiting, rinse mouth, give water if conscious
 - **Storage:** Store in corrosive-resistant container; keep cool, dry, and locked up; separate from acids and metals
 - **Disposal:** Dispose of contents/container in accordance with local/regional regulations
- **Other Hazards:** Exothermic reaction with water; can generate hydrogen gas with metals

GHS Pictograms (text description):

- Corrosion (hand and metal)
- Exclamation mark (for acute toxicity potential)

Section 3: Composition/Information on Ingredients

Ingredient	CAS #	Concentration (w/w)
Sodium Hydroxide	1310-73-2	30–50%
Potassium Hydroxide	1310-58-3	0.1–5%
Water	7732-18-5	Balance

- Mixture; no significant impurities.

Section 4: First-Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if breathing is difficult.
- **Skin Contact:** Immediately flush skin with water for 20+ minutes; remove contaminated clothing; seek immediate medical care.
- **Eye Contact:** Rinse cautiously with water for 15+ minutes; remove contact lenses; get emergency medical attention.
- **Ingestion:** Do not induce vomiting; rinse mouth; give water if conscious; call poison control/medical professional.
- **Symptoms:** Severe burns, redness, pain, respiratory irritation, coughing, nausea.
- **Notes to Physician:** Treat symptomatically; monitor for esophageal or gastrointestinal perforation; manage burns and tissue damage.

Section 5: Fire-Fighting Measures

- **Flammability:** Non-flammable.
- **Suitable Extinguishing Media:** Dry chemical, CO₂, foam (for surrounding fires).
- **Unsuitable Media:** Avoid direct water jets on chemical.
- **Special Hazards:** Corrosive vapors; may release hydrogen gas when in contact with metals.
- **Protective Equipment:** Self-contained breathing apparatus (SCBA) and full protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Evacuate area; use PPE (gloves, goggles, respirator); ensure proper ventilation.
- **Environmental Precautions:** Prevent entry into sewers, drains, or waterways; notify authorities if large spill.
- **Cleanup Methods:**
 - Contain spill; dilute with water slowly
 - Neutralize with weak acid (e.g., vinegar)
 - Absorb with inert material (sand, vermiculite)
 - Collect in suitable containers and dispose according to local regulations

Section 7: Handling and Storage

- **Handling:**
 - Avoid skin and eye contact, inhalation
 - Use in well-ventilated areas
 - Always add product to water, not water to product, to prevent splattering
 - **Storage:**
 - Store in original corrosive-resistant container
 - Keep cool, dry, locked up
 - Separate from acids and metals
 - Maintain above freezing point
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Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:**
 - Sodium hydroxide: OSHA PEL Ceiling 2 mg/m³; ACGIH STEL 2 mg/m³
 - **Engineering Controls:** Local exhaust ventilation
 - **Personal Protective Equipment (PPE):**
 - **Respiratory:** NIOSH-approved respirator if exposure limits exceeded
 - **Hands:** Neoprene or rubber gloves
 - **Eyes:** Chemical goggles and face shield
 - **Skin:** Impervious clothing or apron
 - **Hygiene Measures:** Wash hands after handling; remove contaminated clothing
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Section 9: Physical and Chemical Properties

- **Appearance:** Clear, colorless to slightly hazy liquid
 - **Odor:** Odorless or mild
 - **pH:** 13–14
 - **Boiling Point:** ~100–145°C
 - **Melting/Freezing Point:** ~0–10°C
 - **Vapor Pressure:** Similar to water
 - **Density:** 1.3–1.5 g/cm³
 - **Solubility:** Fully miscible in water
 - **Flammability:** None
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Section 10: Stability and Reactivity

- **Chemical Stability:** Stable under recommended storage conditions
 - **Conditions to Avoid:** Contact with acids, metals, strong oxidizers
 - **Hazardous Decomposition Products:** Corrosive vapors, sodium oxides, hydrogen gas with metals
 - **Possibility of Hazardous Reactions:** Reacts exothermically with water and acids
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Section 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ oral ~325 mg/kg (NaOH)

- **Skin/Eye Damage:** Severe burns, possible perforation
 - **Chronic Effects:** Irritation from repeated exposure
 - **Carcinogenicity / Mutagenicity / Reproductive Toxicity:** Not classified
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Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic life due to high pH (LC₅₀ fish ~45–100 mg/L)
 - **Persistence/Degradability:** Not persistent but can alter pH in water bodies
 - **Bioaccumulation:** Low potential
 - **Mobility in Soil:** High
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Section 13: Disposal Considerations

- Dispose as hazardous waste per RCRA/local regulations
 - Neutralize before disposal if allowed by regulations
 - Use licensed disposal facilities
 - Do not pour undiluted product down drains
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Section 14: Transport Information

- **UN Number:** UN 1824 (Sodium Hydroxide Solution)
 - **Proper Shipping Name:** Sodium Hydroxide Solution / Corrosive liquid, basic, inorganic, n.o.s.
 - **Transport Class:** Class 8 (Corrosive)
 - **Packing Group:** II
 - **Labels:** Corrosive
 - **DOT / IATA / IMDG:** Compliant; limited quantity exceptions may apply
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Section 15: Regulatory Information

- **US Regulations:**
 - SARA 313: Sodium hydroxide reportable
 - TSCA: Listed
 - CERCLA: RQ 1000 lbs (NaOH)
- **California Prop 65:** None

- **International:** WHMIS Class E, REACH registered
 - **Trinidad & Tobago:** Complies with local chemical regulations
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Section 16: Other Information

- **Preparation / Revision Date:** 31 August 2025
- **Sources Referenced:** PubChem, OSHA, ECHA, NIOSH, commercial SDS examples (Instant Power, Drain Away)
- **NFPA Ratings:** Health 3, Flammability 0, Reactivity 2, Special: Corrosive
- **HMIS Ratings:** Health 3, Flammability 0, Physical Hazard 2, PPE B