



SAFETY DATA SHEET (SDS)

Version: 1.0
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SECTION 1. IDENTIFICATION

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1.1 Product Identifier

- **Product Name:** BOREALIS PROFESSIONAL CARBONSTRIKE HEAVY-DUTY CARBON & GREASE REMOVER
- **Product Code (SKU):** B001
- **Recommended Use:** High-performance oven and carbon cleaner designed for professional kitchens and bakeries.
- **Restrictions on Use: For professional use only.** Do not use on aluminum, soft metals, or painted surfaces. Not recommended for glass, natural stone, or acid-sensitive materials. Do not mix with other cleaning products.

1.2 Supplier Details

- **Company Name:** BOREALIS LLC
- **Address:** 4653 Nall Rd. Farmers Branch, TX 75244, USA
- **Website:** www.borealisproclean.com
- **Email:** info@borealisproclean.com
- **Telephone:** [+1 787 468 5388]

1.3 Emergency Telephone Numbers

- **Medical Emergency / Poison Control (24/7):** 1-800-222-1222
- **Fire / Police / Ambulance:** 911

SECTION 2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture (GHS-US)

- Skin Corrosion/Irritation: Category 1B
- Serious Eye Damage/Eye Irritation: Category 1
- Corrosive to Metals: Category 1
- Specific Target Organ Toxicity (Single Exposure) [Respiratory Irritation]: Category 3

2.2 GHS Label elements

- **Hazard Pictograms:**



- **Signal Word:** DANGER

- **Hazard Statements:**
 - H314: Causes severe skin burns and eye damage.
 - H290: May be corrosive to metals.
 - H335: May cause respiratory irritation.
- **Precautionary Statements:**
 - **Prevention:** Do not breathe mist/vapors/spray. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original packaging.
 - **Response:**
 - **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.
 - **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse.
 - **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 - **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.
 - **Absorb spillage to prevent material damage.**
 - **Storage:** Store locked up. Store in a corrosion-resistant container with a resistant inner liner.
 - **Disposal:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3 Other Hazards

- Strong exothermic reaction with acids.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS No.	Concentration (%)
Water	7732-18-5	Balance
Sodium Hydroxide (Caustic Soda)	1310-73-2	8 – 12 %
Monoethanolamine (MEA)	141-43-5	3 – 5 %
Sodium Xylenesulfonate	1300-72-7	3 – 5 %
Sodium Hexametaphosphate	10124-56-8	2 – 4 %
Sodium Metasilicate	6834-92-0	1 – 3 %
Sodium Laureth Sulfate (SLES)	68585-34-2	1 – 3 %
Tetrasodium EDTA	64-02-8	0.1 – 1.0 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. The hazards associated with these components (Sensitization) are reflected in Section 2.

SECTION 4. FIRST-AID MEASURES

- **General Advice:** DANGER! CORROSIVE. Consult a physician immediately. Show this safety data sheet to the doctor in attendance.
- **Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
- **Skin Contact:** Wash immediately with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Chemical burns must be treated by a physician.
- **Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention (ophthalmologist).
- **Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. If the person is conscious, give small sips of water. Seek immediate medical attention. Risk of stomach perforation.

SECTION 5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment (Water spray, Dry chemical, CO₂).
- **Specific Hazards:** The product is not flammable. However, contact with certain metals (such as aluminum, zinc, tin) may liberate flammable hydrogen gas. Thermal decomposition can lead to release of toxic and corrosive fumes (Sodium oxides, Nitrogen oxides).
- **Protective Equipment:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear (chemical-resistant suit).

SECTION 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use mandatory personal protective equipment (Goggles, face shield, butyl rubber/neoprene gloves, impervious suit). Avoid contact with skin, eyes, and clothing. Slip hazard!
- **Environmental Precautions:** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. High pH is harmful to aquatic life.
- **Methods for Cleanup:** Contain spillage with inert material dikes (sand, earth).
Caution: Do not use sawdust or other combustible materials to absorb, as the product is strongly alkaline. Carefully neutralize with dilute acid (e.g., acetic or citric acid) under expert supervision if necessary, or collect and transfer to labeled plastic containers for disposal.

SECTION 7. HANDLING AND STORAGE

- **Handling:** DO NOT BREATHE VAPORS OR MISTS. Handle with extreme caution. Strictly avoid contact with eyes, skin, and clothing. Use personal protective equipment. When diluting, always add the product to water, NEVER add water to the product (violent exothermic reaction).
- **Storage:** Keep in a cool, dry, and well-ventilated place. Keep container tightly

closed. Store in original plastic containers or corrosion-resistant containers. **DO NOT STORE IN ALUMINUM CONTAINERS.** Keep away from strong acids and organic materials. Store locked up.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

- **Sodium Hydroxide (1310-73-2):** OSHA PEL: TWA 2 mg/m³. ACGIH TLV: Ceiling 2 mg/m³.
- **Monoethanolamine (141-43-5):** OSHA PEL: TWA 3 ppm. ACGIH TLV: TWA 3 ppm, STEL 6 ppm.
- *Contains components with occupational exposure limits.*

Engineering Controls

- Safety showers and eyewash stations **MUST** be immediately available in the work area. Local exhaust ventilation recommended to control mists/vapores.

Personal Protective Equipment (PPE)

- **Eye/Face Protection:** Tightly fitting chemical safety goggles and full face shield.
- **Skin and Body Protection:** Wear impervious chemical-resistant gloves (Neoprene, Heavy Nitrile, PVC). Rubber boots and apron or full impervious suit if splashing is possible.
- **Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, use a NIOSH-approved respirator with organic vapor/particulate cartridges (P100).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Clear, slightly yellow liquid.
- **Odor:** Characteristic (Possible amine odor).
- **pH Range:** 12-14.
- **Apparent Density Range (as measured) (g/ml):** 1.08 – 1.15
- **Viscosity Range (mPa.S):** 3-7

Unless otherwise specified, physical and chemical properties were measured at approximately 25°C. Values represent typical ranges observed during small-batch production; variability may occur due to raw material lot differences, entrained air/foam, temperature, and storage conditions.

SECTION 10. STABILITY AND REACTIVITY

- **Reactivity:** Reacts violently with acids. Corrosive to soft metals (Aluminum, Zinc, Tin, Lead) releasing hydrogen (flammable).
- **Chemical Stability:** Stable under normal conditions. Absorbs carbon dioxide from the air (may form carbonates).
- **Conditions to Avoid:** Extreme temperatures. Contact with incompatible acids and soft metals.
- **Incompatible Materials:** Strong acids, Aluminum, Zinc, Tin, Oxidizing agents, Organic materials, Sugars.
- **Hazardous Decomposition Products:** Sodium oxides. Nitrogen oxides. Hydrogen (in contact with metals).

SECTION 11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Harmful if swallowed.
- **Skin Corrosion/Irritation:** Causes severe skin burns (Visible necrosis). Category 1B.
- **Serious Eye Damage/Irritation:** Causes serious eye damage. Risk of permanent blindness.
- **Skin Sensitization:** Sensitization is not expected, but tissue destruction is the primary hazard.
- **Carcinogenicity:** Does not contain ingredients listed as carcinogens by IARC, NTP, or OSHA.
- **Reproductive Toxicity:** No information available.
- **Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation (due to Monoethanolamine and alkaline aerosols).

SECTION 12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** The product is toxic to aquatic life due to extremely high pH. A large spill can cause a drastic pH increase in water bodies, killing fish and organisms.
- **Persistence and Degradability:** Surfactants are biodegradable. Inorganic substances (NaOH, Silicates) are not biodegradable.
- **Bioaccumulative Potential:** Bioaccumulation is not expected.
- **Mobility in Soil:** Soluble in water. High mobility.

SECTION 13. DISPOSAL CONSIDERATIONS

- **Disposal Methods:** This product is a **HAZARDOUS WASTE** (Corrosivity Characteristic D002 under RCRA in USA). Dispose of in accordance with strict federal, state, and local regulations. Neutralization is required before discharge or disposal at authorized chemical waste facilities.
- **Contaminated Packaging:** Empty containers retain product residue and vapors. Treat as hazardous waste. Do not reuse.

SECTION 14. TRANSPORT INFORMATION

DOT (USA) / IATA / IMDG

- **UN Number:** UN 3266
- **Proper Shipping Name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium Hydroxide, Sodium Metasilicate)
- **Hazard Class:** 8
- **Packing Group:** II
- **Required Labels:** Corrosive (Class 8)
- **Environmental Hazards:** Not classified as a Marine Pollutant under IMDG (unless specified otherwise by volume).

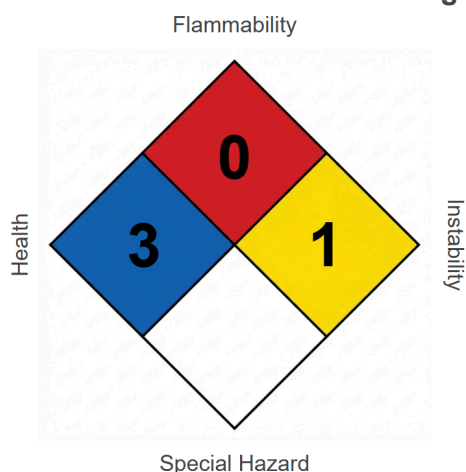
SECTION 15. REGULATORY INFORMATION

- **TSCA (USA):** All components of this product are listed on the TSCA Inventory.
- **Section 302 (EHS):** Contains no extremely hazardous substances.
- **SARA 311/312:**
 - Immediate (Acute) Health Hazard: Yes (Corrosive, Serious Eye Damage).
 - Delayed (Chronic) Health Hazard: No.
- **SARA 313:** This product does not contain chemicals subject to reporting requirements (Sodium Hydroxide is not a SARA 313 chemical, it is CERCLA).
- **CERCLA:** Sodium Hydroxide (RQ = 1000 lbs). Large spills must be reported.
- **CALIFORNIA PROPOSITION 65:**
 - **This product does not contain chemicals known to the State of California to cause cancer or reproductive harm.**

SECTION 16. OTHER INFORMATION

- **NFPA**

Rating:



- **HMIS**

Rating:



Rating Key: 0 = Minimal Hazard, 1 = Slight Hazard, 2 = Moderate Hazard, 3 = Serious Hazard, 4 = Severe Hazard. An asterisk (*) next to the Health rating indicates a potential chronic health risk.

Personal Protective Equipment (PPE) Codes: A = Safety Glasses; B = Safety Glasses + Gloves; C = Safety Glasses + Gloves + Apron; H = Splash Goggles + Gloves + Apron + Vapor Respirator.

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- **Issue Date: 01/15/2026**
- **Disclaimer:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.