



SAFETY DATA SHEET (SDS)

Version: 1.0
Issue Date: 01/15/2026

SECTION 1. IDENTIFICATION

1.1 Product Identifier

- **Product Name:** BOREALIS CALCIUM, LIME & RUST REMOVER
- **Product Code (SKU):** A015 / A016
- **Recommended Use:** Professional acidic descaler for removing calcium deposits, lime scale, and rust stains.
- **Restrictions on Use:** Use only as directed. For professional use only. Do not mix with other cleaning products, acids, bleach, ammonia, or other household chemicals. Apply to a small, inconspicuous test area before use on marble or acid-sensitive natural stones.

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: 911**

SECTION 2. HAZARD(S) IDENTIFICATION

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

- **Skin Corrosion/Irritation:** Category 1
- **Serious Eye Damage/Eye Irritation:** Category 1
- **Corrosive to Metals:** Category 1

2.2 GHS Label elements

- **Hazard Pictograms:**



- **Signal Word:** DANGER
- **Hazard Statements:**

- H290: May be corrosive to metals.
- H314: Causes severe skin burns and eye damage.
- **Precautionary Statements:**
 - **Prevention:** Do not breathe mists/vapors. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, and eye/face protection. Keep only in original container.
 - **Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse immediately skin with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Absorb spillage to prevent material damage.
 - **Storage:** Store locked up. Store in a corrosive-resistant container with a resistant inner liner.
 - **Disposal:** Dispose of contents/container in accordance with local, regional, and national regulations.

2.3 Other Hazards

- **ACID ATTACK:** The low pH will permanently damage (etch) certain metal surfaces and stones if allowed to dry or if used on incompatible materials.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS No.	Concentration (%)
Acetic Acid (Glacial)	64-19-7	7.0 – 13.0%
Methanesulfonic Acid (Lutropur)	75-75-2	7.0 – 13.0%
Alcohol Ethoxylate (Laureth-7)	9002-92-0	1.0 – 5.0%
Water	7732-18-5	Balance

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 are reflected in Section 2.

SECTION 4. FIRST-AID MEASURES

- **General Advice:** IMMEDIATE MEDICAL ATTENTION IS REQUIRED. Show this safety data sheet to the doctor.
- **Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen. Seek

immediate medical attention.

- **Skin Contact:** URGENT. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention for chemical burns.
- **Eye Contact:** URGENT - RISK OF BLINDNESS. Rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower eyelids. Remove contact lenses if present and easy to do. Go to an emergency room immediately.
- **Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth with water. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

SECTION 5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Product is non-flammable. Use CO₂, dry chemical, or foam.
- **Specific Hazards:** Contact with certain metals may release flammable hydrogen gas. Thermal decomposition can release carbon oxides and sulfur oxides.
- **Protective Equipment:** Wear a self-contained breathing apparatus (SCBA) and full chemical protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** CORROSIVE MATERIAL. Evacuate personnel to safe areas. Wear full protective clothing (face shield, acid-resistant suit, rubber boots). Do not breathe mist.
- **Environmental Precautions:** Do not allow material to enter drains or waterways. Low pH is toxic to aquatic life.
- **Methods for Cleanup:** Stop the leak if safe to do so. Neutralize: Cautiously neutralize spill with a dilute base (e.g., sodium bicarbonate). Absorb with inert material (sand, earth). Transfer to properly labeled containers.

SECTION 7. HANDLING AND STORAGE

- **Handling:** DANGER: Avoid all contact with eyes, skin, or clothing. Do not breathe spray mist. Use only with adequate ventilation. Always add product to water; NEVER add water to concentrated product. Wash thoroughly after handling.
- **Storage:** Store locked up. Keep container closed in a cool, well-ventilated place. Keep away from strong bases and reactive metals. Do not store in metal containers sensitive to acids.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:

- **Acetic Acid (64-19-7):** OSHA PEL: 10 ppm (25 mg/m³); ACGIH TLV: 10 ppm (TWA), 15 ppm (STEL).
- **Methanesulfonic Acid (75-75-2):** No established OSHA PEL or ACGIH TLV. Exposure should be controlled as a corrosive acid mist.

8.2 Engineering Controls: Eyewash stations and safety showers must be immediately

accessible in the work area. Use in a well-ventilated area.

8.3 Personal Protective Equipment (PPE):

- **Eye/Face Protection:** Chemical splash goggles and a full face shield are mandatory.
- **Skin Protection:** Wear acid-resistant gloves (Neoprene or Nitrile) and protective clothing (acid-resistant apron/boots).
- **Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, use NIOSH-approved respiratory protection for acid gases.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Transparent liquid
- **Odor:** Pungent, acetic, vinegar-like
- **pH Range:** 0 – 2
- **Apparent Density Range (as measured) (g/ml):** 0.85 – 0.95
- **Viscosity Range (mPa·S):** 1 – 4

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:** Corrosive to metals. Reactive with strong bases.
- **Chemical Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Excess heat and contact with incompatible materials.
- **Incompatible Materials:** Strong bases, oxidizing agents, and reactive metals (Aluminum, Zinc, Galvanized steel).
- **Hazardous Decomposition Products:** Carbon oxides and sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Not classified based on available data.
- **Skin Corrosion/Irritation:** Category 1. Causes severe skin burns.
- **Serious Eye Damage/Irritation:** Category 1. Causes serious eye damage. Risk of blindness.
- **Skin Sensitization:** Not classified based on available data.
- **Carcinogenicity:** No components listed by IARC, NTP, or OSHA.
- **Reproductive Toxicity:** Not classified based on available data.

SECTION 12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Toxic to aquatic life due to extreme pH.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Not expected to bioaccumulate.
- **Mobility in Soil:** High mobility in soil due to water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

- **Disposal Methods:** Hazardous Waste (Corrosive). Dispose of in accordance with federal, state, and local regulations.
- **Contaminated Packaging:** Do not reuse empty containers. Triple rinse before disposal.

SECTION 14. TRANSPORT INFORMATION

DOT (USA):

- **UN Number:** UN3265
- **Proper Shipping Name:** Corrosive liquid, acidic, organic, n.o.s. (Contains Acetic Acid and Methanesulfonic Acid)
- **Hazard Class:** 8
- **Packing Group:** II
- **Limited Quantity Exception:** Inner packagings 1 Liter or less.

IATA: UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, PG II

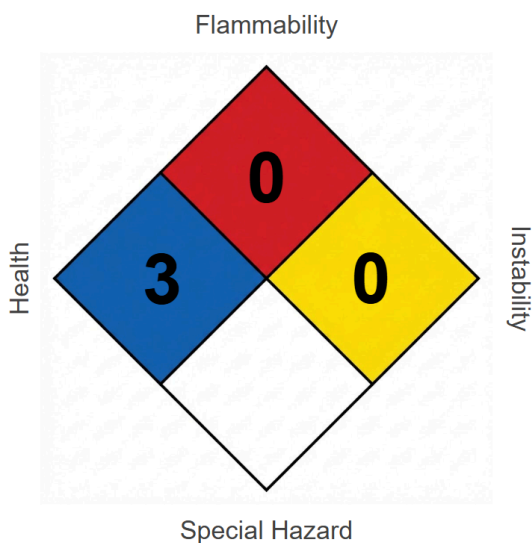
IMDG: UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, PG II

SECTION 15. REGULATORY INFORMATION

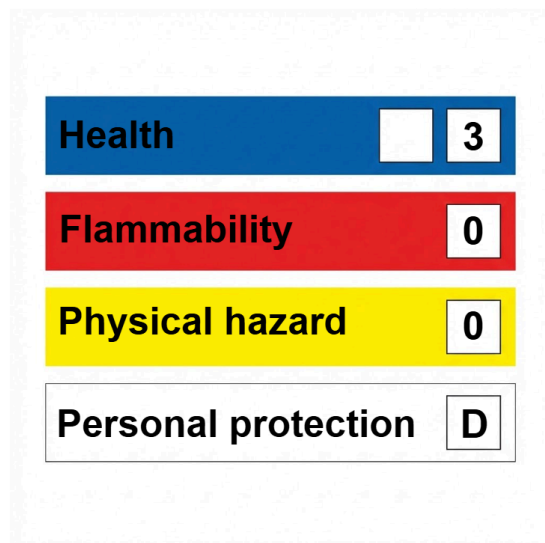
- **TSCA (USA):** All ingredients are listed on the TSCA Inventory.
- **SARA 311/312:** Acute Health Hazard (Corrosive).
- **SARA 313:** No components are subject to SARA 313 reporting.
- **CALIFORNIA PROPOSITION 65:** This product does not contain chemicals known to the State of California to cause cancer or reproductive harm.

SECTION 16. OTHER INFORMATION

• NFPA Rating:



• HMIS Rating:



Key to Ratings: 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 hazard.

Personal Protection 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.