

# MATERIAL SAFETY DATA SHEET

**BIRCHWOOD CASEY®**  
**SAFE SCRUB® ETCH Cleaner**

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DATE REVISED: 6/1/10  
REVISION MSDS NO. 8708-02

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **SAFE SCRUB® ETCH Cleaner**

PRODUCT PART NUMBERS: 870850, 870851, 870858

MANUFACTURED BY: BIRCHWOOD LABORATORIES, INCORPORATED

7900 Fuller Road

Eden Prairie, MN 55344 USA

Product Information Telephone Number: (952) 937-7900 (8:00-4:00pm CST)

Fax Number: (952) 937-7979

[www.birchwoodcasey.com](http://www.birchwoodcasey.com)

**24 HOUR TRANSPORTATION EMERGENCY NUMBER: CHEMTREC 800-424-9300 U.S. & CANADA**  
**703-527-3887 INTERNATIONAL (Collect)**  
**24 HOUR POISON CONTROL EMERGENCY NUMBER: 866-291-7152 U.S. & CANADA**

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## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW: DANGER!** Poison. Corrosive. May be fatal if swallowed. Causes severe burns to eyes and skin. May react with water or acids to generate heat.

**APPEARANCE/ODOR:** Clear amber liquid, mild odor.

**EYE CONTACT:** Severe or permanent eye damage. Corrosive.

**SKIN CONTACT:** Severe irritation and possible burns.

**INGESTION:** Severe burns of mouth, throat and stomach. Symptoms may include vomiting, diarrhea.

**INHALATION:** Severe irritation of respiratory tract and mucous membranes; coughing, difficulty breathing

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Description                  | CAS #      | Weight % | OSHA PEL*<br>TWA | OSHA PEL<br>STEL/C    | ACGIH TLV<br>TWA | ACGIH TLV<br>STEL/C   |
|------------------------------|------------|----------|------------------|-----------------------|------------------|-----------------------|
| Potassium Hydroxide          | 1310-58-3  | < 7      | NE               | 2 mg/m <sup>3</sup> C | NE               | 2 mg/m <sup>3</sup> C |
| Sodium Gluconate             | 527-07-1   | < 2      | NE               | NE                    | NE               | NE                    |
| Tetrapotassium Pyrophosphate | 7320-34-5  | < 5      | NE               | NE                    | NE               | NE                    |
| Phosphoric Acid Ester        | 68130-47-2 | < 3      | NE               | NE                    | NE               | NE                    |
| Water                        | 7732-18-5  | >83      | NE               | NE                    | NE               | NE                    |

**TWA** – Time-weighted Average **STEL** – Short-term exposure limit **C** – Ceiling

(skin) – skin designation means that harmful amounts may be absorbed through the skin

\* Certain States enforce PELs that were in place in 1989, but were later removed by the U.S. Supreme Court. Check with your State OSHA to determine which PEL is enforced in your State.

**NE** = not established **NA** = not applicable **NDA** = no data available

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#### **4. FIRST AID MEASURES**

**EYE CONTACT:** Flush immediately with clean water. Continue for at least 15 minutes. Seek immediate medical attention.

**SKIN CONTACT:** Remove contaminated clothing to avoid prolonged contact. Wash affected areas with water. Seek medical attention if irritation develops.

**INGESTION:** Drink a glass of water and contact local poison control center or physician immediately. **DO NOT** induce vomiting.

**INHALATION:** Remove from exposure. Seek medical attention if necessary if breathing is difficult.

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#### **5. FIRE FIGHTING MEASURES**

##### **FLAMMABLE PROPERTIES**

**FLASHPOINT:** None

**METHOD USED:** NA

**FLAMMABLE LIMITS:** LFL: NA

**UFL:** NA

**EXTINGUISHING MEDIA:** Non-flammable. Use media as appropriate for surrounding materials.

**FIRE & EXPLOSION HAZARDS:** Contact with metals may release flammable hydrogen gas.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should wear approved SCBA and full turn-out gear.

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#### **6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear recommended protective equipment. Recover as much product as possible and collect in alkali-resistant container. Use absorbent to pick up residue. Neutralize residue with dilute solutions of phosphoric/sulfuric or hydrochloric acid. Avoid discharging liquid directly into a sewer or surface waters

Review current local, state and federal laws, codes, statutes, and regulations to determine appropriate agencies to be notified, and the conditions under which they are to be notified. (See Section 13 for waste disposal comments).

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#### **7. HANDLING AND STORAGE**

**HANDLING:** Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out of the reach of children.

**STORAGE:** Store in cool, dry area. Keep containers covered when not in use. Avoid storing with incompatible materials.

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#### **8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** Use a NIOSH approved respirator (organic vapor/N95 cartridge type) if any of the occupational exposure limits in Section 3 may be exceeded.

**EYE PROTECTION:** goggles, face shield

**PROTECTIVE GLOVES:** nitrile, butyl rubber, neoprene

**BODY PROTECTION:** neoprene apron, as needed

**VENTILATION:** Use general/dilution or local exhaust ventilation as needed to ensure that occupational exposure limits are not exceeded.

**OTHER PROTECTIVE EQUIPMENT:** Eyewash and emergency shower

**NOTE:** All PPE should be selected on the basis of an exposure assessment performed by a competent person.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: > 212°F  
VAPOR PRESSURE: NDA  
VAPOR DENSITY: (Air = 1): NA  
SOLUBILITY IN WATER: Complete.  
APPEARANCE: Amber liquid

SPECIFIC GRAVITY: (Water = 1): 1.156  
VOLATILE BY VOLUME: NA  
EVAPORATION RATE: (Ethyl Ether = 1): < 1  
pH: 12.0  
ODOR: mild odor

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## 10. STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: If heated, may produce violent reaction with water.

INCOMPATIBILITY (materials to avoid): Water-reactive substances, metals (e.g. aluminum, zinc) strong acids, oxidizers, organic halogens, flammable liquids.

HAZARDOUS DECOMPOSITION PRODUCTS: Contact with metals such as aluminum and zinc may produce hydrogen gas. Thermal decomposition can produce oxides of carbon, potassium, nitrogen and sulfur.

HAZARDOUS POLYMERIZATION: Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

There is no product based toxicological information for this product. Toxicology information is provided based on individual ingredients.

LD<sub>50s</sub>, oral, rat: 273 mg/kg (potassium hydroxide);

TARGET ORGANS: Eyes, skin, lungs.

Medical conditions that may be aggravated by exposure: Pre-existing skin, eye, respiratory disorders.

Carcinogenicity IARC: None NTP: None OSHA: None

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## 12. ECOLOGICAL INFORMATION

ECOTOXICITY: NDA

ENVIRONMENTAL FATE: NDA

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## 13. DISPOSAL CONSIDERATIONS

Waste and its solutions are assigned EPA Hazardous Waste Number D002 (corrosivity). The Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be dealt with by a licensed facility or waste hauler.

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## 14. TRANSPORT INFORMATION

### D.O.T. HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME:

Corrosive Liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide Solution), 8 / UN3266 / P.G. II

Exceptions: 49CFR 173.154

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## 15. REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCES CONTROL ACT): the materials in this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Response compensation and Liability Act, 40 CFR 117, 302: Potassium Hydroxide has a Reportable Quantity of 1,000 lb. (> 1500 gallons of product).

SARA TITLE III (Superfund Amendments and Authorization Act):

Section 311/312:

Immediate Health Effects: Yes

Delayed Health Effects: Yes

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactivity Hazard: Yes

Section 313 Reportable Ingredients: None

STATE "RIGHT-TO-KNOW": This product may contain components cited on certain state lists. Consult with your individual State regarding this product's components.

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## 16. OTHER INFORMATION

National Fire Protection Association (NFPA): Health: 3 Flammability: 0 Reactivity: 1

The data here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS (Material Safety data Sheet) may be duplicated or the data transcribed to an alternative form.

**NOTE:** The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Birchwood Laboratories, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Birchwood Laboratories, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information. **NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS.** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

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### **FOR ASSISTANCE WITH PLACING ORDERS:**

- Product Pricing / Payment Terms
- Shipping and Tracing of Shipments
- Sales Rep Locations

Call our Sales Department (952) 937-7931

Or 1-800-328-6156 or Fax (952) 937-7979

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### **FOR PRODUCT USAGE ASSISTANCE**

- Questions on Operation of Products
- Solving Finishing Problems
- Operator Safety and Pollution Control

Call our Customer Service Desk Department (952) 937-7931

Or 1-800-328-6156 or Fax (952) 937-7979