



ENFORCER Products
 A Division of Acuity Specialty Products
 Group, Inc.
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Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name Driveway & Concrete Cleaner Concentrate
Product Code HDBMC
Date of issue 04/04/07 **Supersedes** 12/17/04

Emergency Telephone Numbers **For a Medical Emergency:**
 INFOTRAC
 (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:
 CHEMTREC
 (800) 424-9300 (Toll Free - Calls Recorded)

Printing Date:

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 5	ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s).
SODIUM HYDROXIDE; caustic soda; soda lye	1310-73-2	1 - 5	ACGIH / OSHA (United States). CEIL: 2 mg/m ³
POTASSIUM HYDROXIDE; caustic potash; lye	1310-58-3	1 - 5	ACGIH / OSHA (United States). CEIL: 2 mg/m ³

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.
Skin Harmful if absorbed through the skin. Skin contact may produce burns. Skin contact can produce inflammation and blistering.
Eyes Corrosive to eyes. Direct contact with the eyes can cause irreversible damage including blindness.
Inhalation Avoid breathing vapors or spray mists. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
Ingestion May be fatal if swallowed. May cause burns to mouth, throat, and stomach.

HMIS	
Health	3
Fire Hazard	0
Reactivity	0
Personal Protection	D

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects Repeated or prolonged exposure to the substance can produce damage to blood, kidneys, liver, upper respiratory tract, central nervous system (CNS). Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.
Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Not applicable. **Flammable Limits** Not applicable.

Flammability Non-flammable.

Fire Hazard Not applicable.

Fire-Fighting Procedures Use an extinguishing agent suitable for surrounding fires.

**Section 6. Accidental Release Measures**

Spill Clean up Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Do not reuse product container. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)**

Eyes Chemical splash goggles.

Body Wear appropriate protective clothing to prevent skin contact. Rubber gloves. Nitrile gloves. Synthetic apron. Boots.

Respiratory A respirator is not needed under normal and intended conditions of product use.

**Section 9. Physical and Chemical Properties**

Physical State Liquid. **Color** Clear. Yellow.

pH 13.0 - 14.0. **Odor** Characteristic.

Boiling Point 98.9°C (210°F). **Vapor Pressure** Not determined.

Specific Gravity 1.06 (Water = 1). **Vapor Density** Not determined.

Solubility Easily soluble in cold water, hot water. **Evaporation Rate** >1 compared to Butyl acetate.

VOC (Consumer) 53 (g/l). 0.44lbs/gal 5.00%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Slightly reactive to reactive with oxidizing agents, acids.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...)

Section 11. Toxicological Information**Toxicity to Animals****Ethylene Glycol Monobutyl Ether:**

ORAL (LD50): Acute: 1746 mg/kg [Rat].

DERMAL (LD50): Acute: 680 mg/kg [Rabbit].

VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat (Female)].

Sodium Hydroxide:

ORAL (LD50): Acute: 500 mg/kg [Rat].

DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].

Potassium Hydroxide:

ORAL (LD50): Acute: 365 mg/kg [Rat.].

Section 12. Ecological Information

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Code: D002
Classification: Hazardous (Corrosivity)
Origin: RCRA

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide) or Consumer Commodity ORM-D in Limited Quantities
DOT Classification	Class 8: Corrosive liquid.
UN number	UN3266
TDG Classification	TDG Class 8: Corrosive liquid.

Section 15. Regulatory Information

U.S. Federal Regulations	SARA 313 toxic chemical notification and release reporting: Ethylene Glycol Monobutyl Ether Clean Water Act (CWA) 311: Sodium Hydroxide (1,000 lbs RQ), Potassium Hydroxide (1,000 lbs RQ) Clean air act (CAA) 112 regulated toxic substances: No products were found. All Components of this product are listed or exempt from listing on TSCA inventory.
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State Regulations	California prop. 65: No products were found.
WHMIS (Canada)	Class D-1B: Material causing immediate and serious toxic effects (TOXIC). Class D-2B: Material causing other toxic effects (TOXIC). Class E: Corrosive liquid.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.