

1. IDENTIFICATION

Product name: BR-200 Hood Cleaner
Other means of Identification:
Recommended Use: Commercial oven/hood cleaner
Recommended Restrictions: Not for personal/individual use
Manufacturer's Information: Custom Compounders, Inc.
 #1 Tenbrook Industrial Court - Arnold, MO 63010
 Telephone: (636) 296-3131
 Fax No.: (636) 296-4242
 24-hr. Emergency #: (800) 424-9300
Suppliers information: B & R Equipment Co.
 427 St. Louis Avenue
 Valley Park, MO 63088
 Telephone: (636) 529-1090

2. HAZARD(S) IDENTIFICATION

Physical hazards:	Corrosive to Metals	Category 1
Health hazards:	Skin corrosion/irritation	Category 1
	Eye damage/irritation	Category 1
	Acute toxicity, Oral	Category 4
	Acute toxicity, Dermal	Category 4
	Acute toxicity, Inhalation	Category 4
	Specific target organ toxicity, Single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 2 Inhalation
Environmental hazards:	Hazardous to the aquatic environment, Acute hazard	Category 3
	Hazardous to the aquatic environment, Long-term hazard	Category 3

OSHA defined hazards:

Label elements:



Signal Word: Danger

Hazard Statement: May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention: Keep only in original container. Wash thoroughly after handling. Wear protective gloves, clothing, and eye and face protection. Do not breathe mists, fumes or vapors. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response: Absorb spillage to prevent material damage. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Specific treatment (see First Aid Section in this SDS).

Storage: Keep container tightly closed. Store locked up in a corrosive resistant container with a resistant inner liner. Store in a well ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise Classified (HNOC): None known.

Supplemental Information: Preexisting eye, skin and respiratory disorders may be aggravated by exposure. This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>
Sodium hydroxide	131073-2	< 25 %
Sodium Xylene Sulfonate	1300-72-7	< 5 %
2-Butoxyethanol	111-76-2	< 4 %
Ethylenediaminetetraacetic acid	64-02-8	< 3 %

(Note: The exact composition of this product, with respect to the percentages of its' reported ingredients and the presence of its' non-regulated ingredients [not reported], is proprietary information and is being withheld. In the event of a medical emergency, total disclosure will be made to the proper authorities.)

4. FIRST-AID MEASURES

Skin: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a poison control center or doctor immediately. Chemical burns must be treated by a physician. Wash contaminated clothing separately before reuse.

Eyes: Immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure flushing of the entire eye surface. Remove contacts if present and easy to do. Continue rinsing. Call a poison control center or doctor immediately.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell, or if symptoms develop or persist.

Ingestion: Call a poison control center or doctor immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause redness and pain. Harmful if swallowed. Irritating to mouth, throat, and stomach. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed if necessary: Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm and under observation. Symptoms may be delayed. Ensure medical personnel are aware of the materials involved and take precautions to protect themselves. Show this safety data sheet to doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, alcohol resistant foam, carbon dioxide (CO2), water fog.

Unsuitable Extinguishing Media: Do not use water jet as extinguisher as this may spread the fire.

Specific hazards arising During fire, gases hazardous to health may be formed, or may emit carbon oxides.

From the chemical:

Special protective equipment and precautions for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Keep unnecessary personnel away from spill and upwind of spill or leak. Cleanup workers must use protective clothing and equipment to prevent body contact. Avoid breathing vapors or mist. Ensure adequate ventilation. Remove sources of ignition. Beware of vapors accumulating in low areas that may form explosive concentrations. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and materials for containment and cleaning up:

Dam up spill, and absorb with non-flammable inert material such as clay, vermiculite or diatomaceous earth. Use clean non-sparking tools to collect absorbed material, and transfer into salvage containers. Prevent further leakage or spillage if safe to do so. Following product recovery, flush area with water. Do not let product enter drains, water courses or onto the ground. Discharge into the environment must be avoided. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. HANDLING & STORAGE

Precautions for safe handling:

Do not get in eyes, on skin or on clothing. Do not breathe mist or vapor. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and in a cool, dry, well ventilated area, and away from incompatible materials. Containers should be bonded and grounded for transfers to avoid static sparks. Use only non-sparking type tools and equipment, including explosion proof ventilation. After this container has been emptied, it may contain explosive vapors; observe all warnings and precautions listed for the product. Do not reuse or dispose of empty containers until they have been rinsed with water. DO NOT enter confined spaces until atmosphere has been checked.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Components	Type	Value
Sodium Hydroxide (CAS 1310-73-2)	PEL	2 mg/m3
US. ACGIH Threshold Limit Values		
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
US. NIOSH: Pocket Guide to Chemical Hazards		
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels of vapors below recommended exposure limits. If exposure limits have not been established,

maintain airborne levels to an acceptable level. Keep container closed when not in use. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

Individual protection measures, such as personal protective equipment:

Eye, face and skin:

Eyes and face: Wear chemical splash goggles and face shield. Have eye baths immediately available where eye contact can occur. **Skin:** Wear chemical resistant gloves, rubber apron and rubber boots to minimize skin contact. Safety shower, eye bath and washing facilities should be easily accessible.

Respiratory Protection:

Not normally required with everyday use under ordinary usage. Should exposure exceed allowable TWA/PE's, use a NIOSH approved respirator as required to prevent over-exposure.

Ventilation Required:

Provide ventilation adequate to maintain airborne concentrations below OSHA limits of 2 mg/m³. Local exhaust ventilation preferred where dilutions or reactions cause misting. Air concentration of carbon monoxide formed by reaction should not exceed 50 ppm for an 8 hr TWA. Ventilation equipment should be corrosion resistant, and if hydrogen may be generated, explosion proof.

General hygiene considerations:

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material, and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear, yellow to brown liquid
Odor:	Mild
Odor threshold:	Not available
pH:	13.0 - 14.0 typical
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid/gas):	Not applicable
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	9.433
Solubility:	Complete
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Other information:	
Specific Gravity:	1.13 typical

10. STABILITY & REACTIVITY

Reactivity:	Reacts violently with strong acids. This product may react with oxidizing agents.
Chemical stability:	Product is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials:	Avoid contact with oxidizing agents, strong acids, alkali sensitive metals or alloys, or halogenated materials.
Hazardous decomposition products:	Hydrogen, a highly flammable and explosive gas, is formed by reaction with aluminum. Carbon monoxide gas can form upon contact with food and beverage products in enclosed areas. Thermal or chemical decomposition of product may release fumes of

potassium oxide, which can react with steam or water to produce heat and flammable hydrogen.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Component:	Acute toxicity	Result	Species	Dose	Exposure
2-Butoxyethanol (CAS 111-76-2)		LD50 Dermal	Rabbit	4.0 g/kg	
		LD50 Oral	Rat	5.1 g/kg	
		LC-50 Inhalation Sat Air			(18 ppm) - no deaths (rat) 7 hours

Information on likely routes of exposure:

- Eye and Skin contact:** Causes serious eye damage and severe skin burns.
- Ingestion:** Causes digestive tract burns.
- Inhalation:** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
- Symptoms related to the physical, chemical and toxicological characteristics:** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
- Respiratory Sensitization:** Not a respiratory sensitizer.
- Skin Sensitization:** Not expected to cause skin sensitization.
- Carcinogenicity:** Not available.
- Germ cell mutagenicity:** No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.
- Reproductive toxicology:** Not expected to cause reproductive or developmental effects.
- Toxicological synergism:** Not available
- Specific target organ toxicity-Single exposure:** Not classified.
- Specific target organ toxicity-Repeated exposure:** May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard:** Not an aspiration hazard

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects.

Component	Species	Test Results
Caustic soda 50% Diaphragm (CAS)		
Aquatic		
Crustacea	EC50	Daphnia
Fish	LC50	Fish
		69.18 mg/l, 48 hours estimated
		250 mg/l, 96 hours estimated
Sodium hydroxide (CAS 1310-73-2)		
Aquatic		
Crustacea	EC50	Water flea (Ceriodaphnia dubia)
Fish	LC50	Western mosquitofish (Gambusia affinis)
		34.59 - 47.13 mg/l, 48 hours
		125 mg/l, 96 hours estimated
Persistence and degradability:	No data available.	
Bioaccumulative potential:	No data available.	
Mobility in soil:	No data available.	
Other adverse effects:	No other environmental effects are expected from this product.	
Biodegradability:	No data available.	

13. DISPOSAL CONSIDERATIONS

Disposal Instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from residues /unused product: Product should not be allowed to enter drains, water courses, or soil. Empty container may retain residue and must be disposed of in a safe manner. (see Disposal instructions).

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT:

UN number:	UN1760
Proper shipping name:	Corrosive liquid, N.O.S.
Transport hazard class:	8
Packing group:	III
Marine pollutant:	Yes
Poison inhalation hazard:	No

15. REGULATORY INFORMATION

(Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.)

US federal regulations This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4) Sodium hydroxide (CAS# 1310-73-2) Listed.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) No components listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate hazard - Yes
	Delayed hazard - Yes
	Fire hazard - No
	Pressure hazard - No
	Reactivity hazard - Yes

SARA 302 Extremely hazardous substance: No components listed.

SARA 311/312 Hazardous chemical Yes

Other federal regulations:
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List No components listed.

Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130) No components listed.

Safe Drinking Water Act (SDWA) No components listed.

US California Proposition 65: Listed component contains a chemical known to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

**AS A GENERAL RULE, PREVENT AND PROTECT THIS PRODUCT FROM UNAUTHORIZED USE.
FOR INDUSTRIAL USE ONLY!!!!!!
END OF REPORT**

NFPA - National Fire Protection Association:

Health 2 / Fire 0 / Reactivity 2

The information herein stresses the most hazardous component(s) only. By this approach, we feel better knowledge and awareness should substantially contribute to reduce exposure and injury to workers involved with the use of this product. The information supplied in this document is presented for exactly this purpose. As required by law, this data should be thoroughly read and made available to anyone who may be responsible for handling this material. All data provided relates to the concentrated product as shipped. Actual usage rates and further dilution will, in most cases, greatly reduce, if not eliminate, the potential for worker injury. Any and all chemical products should be handled with extreme care and only by authorized and informed personnel. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this SDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation. The information and recommendations provided in this Safety Data Sheet have been obtained from data we believe to be reliable. We provide no warranties, expressed or implied, or accept no responsibility for loss associated with the use or handling of this product. This information is offered for your review and consideration. Efforts should be extended to determine the applicability of this product for your specific intended use. We know of no medical condition, other than those noted in this Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

REASON FOR REVISION: Version 1 - GHS compliance

DATE ISSUED: 09/05/99
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