





Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	CLASS D-2B: Material causing other toxic effects (TOXIC). WHMIS Class C: Oxidizing material. WHMIS (Classification)	HCS Class: Corrosive liquid. HCS
---	--	---

Section 1. Chemical Product and Company Identification

Product Name/ Trade name CBC	Code 187
Synonym Cutting Board Cleaner	CAS # Mixture.
Chemical Family Not available.	Validation Date 3/2/2007
Chemical Formula Not applicable.	Print Date 3/23/2007
Manufacturer/ Supplier Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	In Case of Emergency Chemtrec (800) 424-9300
TSCA TSCA Inventory: All components listed or are exempt from listing.	Protective Clothing 
DSL/ NDSL All components listed unless noted elsewhere on this MSDS	

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Water	7732-18-5	>90	Not available.	Not available.
Sodium Hypochlorite	7681-52-9	0-5	Not available.	Not available.
Sodium Hydroxide	1310-73-2	0-5	TWA: 2 (mg/m ³) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 140 mg/kg [Rat].
Nonionic Surfactant	61788-90-7	0-5	Not available.	ORAL (LD50): Acute: 4610 mg/kg [Rat].
Neutralized Polyacrylic Acid	N/A	0-5	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	Extremely hazardous in case of eye contact (irritant, corrosive). Very hazardous in case of skin contact (corrosive, irritant), of ingestion. Hazardous in case of inhalation. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Potential Chronic Health Effects	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. 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	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Products of Combustion	Hypochlorous Acid (HOCL), Chlorine; Hydrogen chloride; Oxygen (depending on pH and temperature)
Fire Fighting Media and Instructions	Do not use water jet. Use flooding quantities of water.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

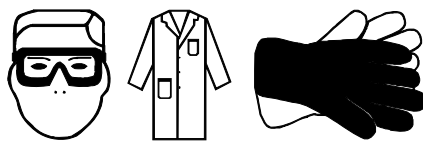
Section 7. Handling and Storage

Precautions	Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe gas/fumes/vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, ammonia.
Incompatibility	Incompatible with some strong acids. oxidizing agents Ammonia
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles. Keep out of the reach of children. Not for use or storage in or around the home.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Personal Protection	
<i>Eyes</i>	Splash goggles.
<i>Body</i>	Lab coat.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves (impervious).

**Protective Clothing
(Pictograms)**



Exposure Limits

Sodium Hydroxide

TWA: 2 (mg/m³) from OSHA (PEL) [United States]

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	
pH	13 to 13.9 [Basic.]	Color	Yellow.
Boiling/Condensation Point	100°C (212°F)		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature			
Specific Gravity	1.09 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	>1 (Air = 1)		
Volatility	>90% (w/w).		
VOC	0 (%)		
Evaporation Rate	<1 compared to Butyl acetate.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water, hot water.		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	CLOSED CUP: >98.889°C (210°F). (Tagliabue.)		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	Not available.		
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	Incompatible with some strong acids. oxidizing agents Ammonia
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 140 mg/kg [Rat]. (Sodium Hydroxide).
Acute Effects on Humans	<p><i>Eyes</i> Extremely hazardous in case of eye contact (irritant, corrosive). Inflammation of the eye is characterized by redness, watering, and itching. Eye contact can result in corneal damage .</p> <p><i>Skin</i> Very hazardous in case of skin contact (corrosive, irritant). Skin contact may produce burns. Prolonged exposure may result in skin burns and ulcerations.</p> <p><i>Inhalation</i> Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.</p> <p><i>Ingestion</i> Very hazardous in case of ingestion. May be fatal if swallowed. May cause burns to mouth, throat, and stomach.</p>
Chronic Effects on Humans	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	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	Not available.

Section 14. Transport Information

DOT (U.S.A)
(Pictograms)



TDG Classification Class 8: Corrosive material



PIN UN, Proper Shipping Name, PG Consult Bill of Lading for proper shipping name

Maritime Transportation Not available.

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) CLASS D-2B: Material causing other toxic effects (TOXIC).
WHMIS Class C: Oxidizing material.



Regulatory Lists CEPA DSL: All Components Listed on DSL

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications

HCS (U.S.A.) HCS Class: Corrosive liquid.

USA Regulatory Lists

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Hydroxide: immediate health hazard

DSD (EEC) R35- Causes severe burns.

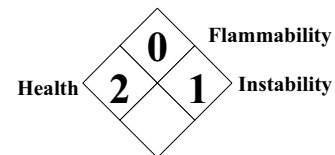
International Regulations Lists

No products were found.

Hazardous Material Information System (U.S.A.)

Health	3
Flammability	0
Physical Hazard	1

National Fire Protection Association (U.S.A.)



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Validated by CRushton on 3/2/2007.

Verified by CRushton.

Printed 3/23/2007.

Information Contact Betco Corporation
1001 Brown Avenue
Toledo, Ohio 43607

Notice to Reader:

*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.*

Validated on 3/2/2007.

CBC

Page: 6/6

Continued on Next Page