

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION	
<b>NFPA Rating:</b> Health-2; Flammability-0; Reactivity-1; Special- Alkaline <b>Manufacturer's Name:</b> VERAX CHEMICAL CO. <b>Address:</b> 20102 Broadway Ave. Snohomish, WA 98296	<b>HMS Rating:</b> Health-2; Flammability-0; Reactivity-1; Personal Protection-B <b>DOT Hazard Classification:</b> Non-hazardous <b>Identity</b> (trade name as used on label): <b>BRAWNY Heavy Duty Cleaner</b>
<b>Date Prepared:</b> 03/25/2003 <b>Prepared By:</b> GP <b>Information Calls:</b> (425) 481-5353 <b>EMERGENCY RESPONSE NUMBER:</b> 1(425)481-5353	<b>MSDS Number:</b> BRN <b>Revision:</b> -2 NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA

## SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	Hazard	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
Sodium Metasilicate			.4	None	
Ethylene Glycol Monobutyl Ether		Skin		50	
Monoethanolamine				3	

## SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

<b>Boiling Point:</b> ~220°F	<b>Specific Gravity</b> (H <sub>2</sub> O=1): 1.095
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): same as water	<b>Vapor Pressure</b> (mm Hg and Temperature): Similar to water
<b>Vapor Density</b> (Air = 1): N.D.	<b>Evaporation Rate</b> (water = 1): <1
<b>Solubility in Water:</b> Complete	<b>Melting Point</b> NA
<b>Appearance and Odor:</b> Dark blue viscous liquid. Sassafras fragrance with slight ammonia odor.	

## SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) N/A	<b>Auto Ignition Temperature</b> N/A	<b>Flammability Limits in Air by % in Volume:</b> % LEL: N/A      % UEL: N/A
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): None		<b>EXTINGUISHER MEDIA:</b> Will not burn
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Wear self-contained breathing apparatus approved by NIOSH and full protective clothing. Use water spray to keep containers cool.		
<b>Unusual Fire &amp; Explosion Hazards:</b> None		

## SECTION 4 - REACTIVITY HAZARD DATA

<b>STABILITY</b> <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
<b>Incompatibility</b> (Mat. to avoid): Concentrated acids. Chlorine bleach	<b>Conditions to Avoid:</b> Extreme heat or cold.
<b>Hazardous Decomposition Products:</b> Thermal decomposition may produce carbon monoxide and/or carbon dioxide.	

## SECTION 5 - HEALTH HAZARD DATA

<b>PRIMARY ROUTES OF ENTRY:</b> <input checked="" type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
<b>ACUTE EFFECTS:</b> <b>Eyes:</b> May cause severe irritation, redness, tearing, blurring vision. <b>Skin:</b> Repeated or prolonged contact may cause moderate irritation, defatting, dermatitis. <b>Inhalation:</b> Excessive inhalation may cause nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache. <b>Ingestion:</b> May cause burns of the mucous membranes of mouth, throat, esophagus and stomach.	
<b>CHRONIC EFFECTS:</b> None Known.	
<b>Carcinogens:</b> None Known to be present	
<b>Signs and Symptoms of Exposure:</b> Eye or skin irritation. Respiratory irritation.	
<b>Medical Conditions Generally Aggravated by Exposure:</b> None known.	

## EMERGENCY FIRST AID PROCEDURES

<b>Eye Contact:</b> Flush with water for 15 minutes while lifting eyelids. If irritation persists get medical attention.
<b>Skin Contact:</b> Immediately flush with water while removing contaminated clothing. Follow by washing with soap and water. Launder clothing before re-use. If irritation persists get medical attention.
<b>Inhalation:</b> Remove to fresh air. If not breathing give artificial respiration and call a physician.
<b>Ingestion:</b> DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water or milk. Follow with dilute vinegar or fruit juice. Get immediate medical attention.

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

<b>Respiratory Protection (specify type):</b> None required if used with adequate ventilation	<b>Eye Protection:</b> Splash goggles or face shield.
<b>Protective Gloves:</b> Rubber recommended.	
<b>Ventilation Requirements:</b> Normal room ventilation is generally adequate.	
<b>Other Protective Clothing &amp; Equipment:</b> Do not wear clothes soaked by product.	
<b>Hygienic/Work Practices:</b> Ordinary good housekeeping procedures. Wash hands thoroughly after handling and before eating or using restroom facilities. Avoid food contamination. Read product directions before use. KEEP OUT OF REACH OF CHILDREN	

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Small spills should be flushed with plenty of water. Larger spills should be collected for disposal. Caution: Spilled material may be slippery.
<b>Waste Disposal Methods:</b> Waste Disposal Method: Biodegradable. Flush to sewer or absorb with suitable medium and incinerate or landfill according to local, state, and federal regulations.
<b>Precautions To Be Taken In Handling &amp; Storage:</b> All normal precautions. Avoid food contamination.
<b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN. Read & follow label directions. Spilled material may be slippery.

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only