MATERIAL SAFETY DATA SHEET

DATE PRINTED: 3/21/2002

MSDS NO. 211

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

MANUFACTURERS NAME
W.M. BARR & COMPANY, INC.

ADDRESS
2105 Channel Ave.
Memphis, TN 38113 USA

EMERGENCY TELEPHONE #1
901-775-0100

EMERGENCY CONTACT
W.M. Barr Technical Services

EMERGENCY INFORMATION
See Section 5 for additional Emergency Information

INVENTORY ITEM #

CHEMICAL FORMULA
211

PRODUCT NAME
WATER-BASED BRASS NEUT./CLEANER

REVISED BY
W.M. Barr Technical Services

REVISION DATE
11/03/1992

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#	CARCINOGENICITY NTP	ACGIH	OSHA	IARC
SURFACTANT SOLUTION	5- 10	5324-84-5	N	N	N	N
** ABOVE INGREDIENT CONSISTS OF THE FOLLOWING **						
SODIUM OCTYL SULFONATE	50- 55	5324-84-5	N	N	N	N
ALKYLOXYPOLYETHYLENEOXYETHANOL	1- 5	68131-40-8	N	N	N	N
ALKYLOXYPOLYETHYLENEOXYETHANOL	1- 5	68131-40-8	N	N	N	N

SECTION 3. REGULATORY INFORMATION

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	REG.AGCY	U/M	TWA	STEL	CEIL	SKIN	PEL
SURFACTANT SOLUTION	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E
SODIUM OCTYL SULFONATE	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E
ALKYLOXYPOLYETHYLENEOXYETHANOL	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E
ALKYLOXYPOLYETHYLENEOXYETHANOL	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E

ADDITIONAL REGULATORY INFO
The time weighted average (TWA) value described herein is a threshold limit value (TLV) as established by ACGIH. The permissible exposure limit (PEL) is a value established by OSHA.

CALIFORNIA (PROPOSITION #65)
Ingredients in this product are not listed on California's Prop 65 list: "Chemicals Known to the State to Cause Cancer or Reproductive Toxicity."

SECTION 3. REGULATORY INFORMATION (CONTINUED)

SEC. 313 SUPPLIER NOTIFICATION
The following information must be included in all MSDS that are copied and distributed for this material.

This product contains no chemicals subject to the reporting requirements of SARA III: Section 313.

CLEAN AIR ACT
This formula contains no known ozone depleting chemicals.

HAZARD COMMUNICATION STANDARD
This document is prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). This MSDS contains thirteen (13) sections.

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The following effects and/or symptoms are not expected to be experienced by persons who use this product properly and according to ALL instructions, precautions, and warnings; however, should the product user experience ANY questionable effects or symptoms, the product user should immediately seek medical attention.

SECTION 4. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS
Severe overexposure may cause irritation of the respiratory tract.

SKIN CONTACT ACUTE EXPOSURE EFFECTS
May cause redness.

EYE CONTACT ACUTE EXPOSURE EFFECTS
May cause irritation.

INGESTION ACUTE EXPOSURE EFFECTS
Harmful if swallowed. May cause nausea and gastrointestinal irritation.

CHRONIC EXPOSURE EFFECTS
Prolonged or repeated contact may cause dermatitis. May cause absorption of potentially harmful amounts.

MEDICAL CONDITIONS AGGRAVATED
Diseases of the skin.

PRIMARY ROUTE OF EXPOSURE
Inhalation, ingestion, and dermal.

SECTION 5. FIRST AID MEASURES

INHALATION
If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

SKIN CONTACT
Wash with soap and water.

EYE CONTACT
Flush with large quantities of water for at least 15 minutes. If irritation from contact persists, get medical attention.

SECTION 5. FIRST AID MEASURES (CONTINUED)

INGESTION
Call your poison control center, hospital emergency room, or physician immediately for instructions.

NOTE TO PHYSICIAN
This formula is registered with POISINDEX.
Call your local poison control center for further information.

SECTION 6. FIRE FIGHTING MEASURES

HAZARD RATING SOURCE	HMIS	NFPA
HEALTH	2	1
FLAMMABILITY	0	0
REACTIVITY	0	0
OTHER	A	NA

FLASH METHOD
Seta

FLASH POINT
N/E F N/E C No flashpoint

LOWER EXPLOSION LIMIT
N/E

GENERAL COMMENTS
OSHA FLAMMABILITY: Not Applicable

EXTINGUISHING METHOD
Use carbon dioxide, dry powder, or foam.

FIRE FIGHTING PROCEDURES
Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Stay away from heads of containers that have been exposed to intense heat or flame.

FIRE AND EXPLOSION HAZARDS
Keep container tightly closed.

SECTION 7. ACCIDENTAL RELEASE MEASURES

CLEAN-UP
Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. SMALL SPILLS: take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable. LARGE SPILLS: dike far ahead of spill for later disposal.

For transportation related spills contact Chemtrec at 1-800-424-9300 for emergency assistance.

WASTE DISPOSAL
Dispose in accordance with applicable local, state and federal regulations.

SECTION 8. HANDLING AND STORAGE

STORAGE
Protect from freezing. Avoid extreme high or low temperatures.

HANDLING
Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

SECTION 9. TRANSPORT INFORMATION

TRANSPORTATION
For D.O.T. information, contact W.M. Barr Technical Services Department.

SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION
Use in a well-ventilated area.

RESPIRATORY PROTECTION
Usually none required.

SKIN PROTECTION
Usually none required. People with sensitive skin should wear impermeable gloves.

EYE PROTECTION
Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

OTHER PROTECTION
Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

SECTION 11. PHYSICAL AND CHEMICAL PROPERTIES

VOLATILE %
98.000
by weight

BOILING POINT
GT 212.00 F 100.00 C BOILING RANGE: 212 F - 570 F

VAPOR DENSITY (Air = 1.0)
Heavier than air

EVAPORATION RATE
Slower than ether

BULK DENSITY
8.43
lbs/gal at 75 F

SECTION 11. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

pH FACTOR
N/E

PHOTOCHEMICALLY REACTIVE
NO

MAX V.O.C.
0 grams per liter (excluding exempt solvents & water)

MAX VAPOR PRESSURE
(of the V.O.C.) 0mm Hg at 20 degrees C

SECTION 12. STABILITY AND REACTIVITY

INCOMPATIBILITIES
Incompatible with strong oxidizing agents, stong acids, strong alkalies, hydrogen peroxide, and chromic acid.

DECOMPOSITION
Decomposition may produce carbon monoxide and carbon dioxide.

POLYMERIZATION
Will not occur.

STABILITY
Stable.

SECTION 13. ADDITIONAL INFORMATION

IMPORTANT NOTE
The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

LEGEND:
PPM = parts per million
MG/M3 = milligrams per cubic meter
N/E or NE = none established
GT = greater than
N/A or NA = not applicable
TCC = tag closed cup
TOC = tag open cup
PMCC = Pensky-Martens closed cup
IDLH = Immediately Dangerous to Life and Health

END OF MSDS