

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 9/23/2003
ATTN: SHERRY

PAGE
MSDS NO. 1625.1

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

"3E" 24 HOUR MEDICAL EMERGENCY #, 800 451-8346.
SEE SECTION 5 FOR ADDITIONAL EMERGENCY INFORMATION

INVENTORY ITEM #
QA11342

CHEMICAL FORMULA
1625.1

PRODUCT NAME
ACE DENATURED ALCOHOL

REVISED BY
W.M. Barr Technical Services

REVISION DATE
7/30/2003

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CARCINOGENICITY

SUBSTANCE DESCRIPTION	PERCENT	CAS#	NTP	ACGIH	OSHA	IARC
DENATURED ALCOHOL	45- 50	N/A	N	N	N	N
** ABOVE INGREDIENT CONSISTS OF THE FOLLOWING **						
ETHANOL	85- 90	64-17-5	N	N	N	N
METHANOL	1- 4	67-56-1	N	N	N	N
METHYL ISOBUTYL KETONE	1- 5	108-10-1	N	N	N	N
METHANOL	45- 50	67-56-1	N	N	N	N

SECTION 3. REGULATORY INFORMATION

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	REG.AGCY	U/M	TWA	STEL	CEIL	SKIN	PEL
DENATURED ALCOHOL	ACGIH OSHA	PPM PPM	N/E N/E	N/E N/E	N/E N/E	N N	N/E N/E
ETHANOL	ACGIH OSHA	PPM PPM	1000.00 1000.00	N/E N/E	N/E N/E	N N	N/E 1000.00
METHANOL	ACGIH OSHA	PPM PPM	200.00 200.00	250.00 250.00	N/E N/E	Y Y	N/E 200.00
METHYL ISOBUTYL KETONE	ACGIH OSHA	PPM PPM	50.00 N/E	75.00 75.00	N/E N/E	N N	N/E 100.00

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."

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 9/23/2003
ATTN: SHERRY

PAGE NO. 1625.1
MSDS

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 the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 372):

SUBSTANCE DESCRIPTION	PERCENT BY WEIGHT (UPPER LIMIT)	CAS#
METHANOL	52	67-56-1
METHYL ISOBUTYL KETONE	3	108-10-1

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.

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

Vapor harmful. May cause dizziness, headache, watering of eyes, irritation of respiratory tract, irritation to the eyes, drowsiness, nausea, other central nervous system effects, spotted vision, dilation of pupils, and convulsions.

SKIN CONTACT ACUTE EXPOSURE EFFECTS

May cause irritation, drying of skin, redness, and dermatitis. May cause symptoms listed under inhalation. May be absorbed through damaged skin.

EYE CONTACT ACUTE EXPOSURE EFFECTS

May cause irritation.

INGESTION ACUTE EXPOSURE EFFECTS

POISON. CANNOT BE MADE NON-POISONOUS. May be fatal or cause blindness. May produce fluid in the lungs and pulmonary edema. May cause dizziness, headache, nausea, drowsiness, loss of coordination, stupor, reddening of face and/or neck, liver, kidney and heart damage, coma, and death. May produce symptoms listed under inhalation.

CHRONIC EXPOSURE EFFECTS

May cause symptoms listed under inhalation, dizziness, fatigue, tremors, permanent central nervous system changes, blindness, pancreatic damage, and death.

MEDICAL CONDITIONS AGGRAVATED

Diseases of the liver.

PRIMARY ROUTE OF EXPOSURE

Inhalation, ingestion, and dermal.

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 9/23/2003
ATTN SHERRY

PAGE NO. 1625³.1
MSDS

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.

INGESTION

Call your poison control center, hospital emergency room or physician immediately for instructions to induce vomiting.

NOTE TO PHYSICIAN

POISON. THIS PRODUCT CONTAINS METHANOL. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis. 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	3	3
REACTIVITY	0	0
OTHER	G	NA

FLASH METHOD
SETA

FLASH POINT
45.00 F 7.22 C

LOWER EXPLOSION LIMIT
1

GENERAL COMMENTS

OSHA FLAMMABILITY: Class IB

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. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

FIRE AND EXPLOSION HAZARDS

DANGER! FLAMMABLE. KEEP AWAY FROM HEAT, SPARKS, FLAME, AND ALL OTHER SOURCES OF IGNITION. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and all other sources of ignition during use and until all vapors are gone. Beware of static electricity that

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 9/23/2003
ATTN: SHERRY

PAGE
MSDS NO. 1625⁴.1

SECTION 6. FIRE FIGHTING MEASURES
(CONTINUED)

may be generated by synthetic clothing and other sources.

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

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated 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

DOMESTIC: ALCOHOLS, N.O.S., 3, UN1987, PGII, (Contains Ethyl Alcohol, Methanol)

IMDG: ALCOHOLS, N.O.S., 3, UN1987, PGII, (Contains Ethyl Alcohol, Methanol) FLASHPOINT 45F (7.22C), EMS 3-06

IATA Alcohols, N.O.S., UN1987, PGII, (Contains Ethyl Alcohol, Methanol) Flashpoint 45F (7.22C), ERG Code 3L

SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION

Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering - STOP - ventilation is inadequate. Leave area immediately.

RESPIRATORY PROTECTION

For OSHA controlled work place and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 9/23/2003
ATTN: SHERRY

PAGE
MSDS NO. 1625.1

SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION
(CONTINUED)

SKIN PROTECTION

Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product.

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 %

100.000
by weight

BOILING POINT

GT 147.00 F 63.88 C BOILING RANGE: 147 F - 241 F

VAPOR DENSITY (Air = 1.0)

Heavier than air

EVAPORATION RATE

Slower than ether

BULK DENSITY

6.61
lbs/gal at 75 F

pH FACTOR

N/E

PHOTOCHEMICALLY REACTIVE

NO

MAX V.O.C.

792 grams per liter (excluding exempt solvents and water)

MAX VAPOR PRESSURE

(of the V.O.C.) 76mm Hg at 20 degrees C

SECTION 12. STABILITY AND REACTIVITY

INCOMPATIBILITIES

Incompatible with strong oxidizing agents.

DECOMPOSITION

Decomposition may produce carbon monoxide and carbon dioxide.

POLYMERIZATION

Will not occur.

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 9/23/2003
ATTN SHERRY

PAGE 6
MSDS NO. 1625.1

SECTION 12. STABILITY AND REACTIVITY
(CONTINUED)

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