

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 00000000 AUTO VALUE PBE DIVISION

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MSDS NO. 3405.1

SECTION 1. MANUFACTURERS INFORMATION

MANUFACTURERS NAME: W.M. BARR & COMPANY, INC.
ADDRESS: 2105 Channel Ave. Memphis, TN 38113
EMERGENCY TELEPHONE: 901-775-0100
EMERGENCY CONTACT: W. M. BARR Technical Services

See Section 6 for additional Emergency Information

REVISED BY W. M. BARR MSDS Committee 1/06/1994

SECTION 2. PRODUCT INFORMATION

INVENTORY ITEM #: G7713 CHEMICAL FORMULA 3405.1
PRODUCT NAME: AUTO VALVE - JET-STRIP

SECTION 3. INGREDIENTS/REGULATORY INFORMATION

| INGREDIENT DESCRIPTION | PERCENT BY | | CARCINOGENICITY | | | |
|---|------------|-----------|-----------------|-------|------|------|
| | WEIGHT | CAS# | NTP | ACGIH | OSHA | IARC |
| METHYLENE CHLORIDE | 80- 85 | 75-09-2 | Y | Y | N | Y |
| METHANOL | 5- 10 | 67-56-1 | N | N | N | N |
| AMMONIUM HYDROXIDE SOLUTION | 1- 5 | 1336-21-6 | N | N | N | N |
| **** ABOVE INGREDIENT CONSIST OF THE FOLLOWING **** | | | | | | |
| AMMONIA | 25- 30 | 7664-41-7 | N | N | N | N |

EXPOSURE LIMITS/REGULATORY INFORMATION

| INGREDIENT DESCRIPTION | REG. | | | | | | |
|--|-------|-----|-------|-------|--------|------|-------|
| | AGCY. | U/M | TWA | STEL | CEIL | SKIN | PEL |
| METHYLENE CHLORIDE | ACGIH | PPM | 50.0 | N/E | N/E | N | N/E |
| | OSHA | PPM | 500.0 | N/E | 1000.0 | N | N/E |
| OSHA PEAK CONCENTRATION FOR 8 HR. SHIFT: 2000 PPM FOR 5 MIN. IN ANY 2 HRS. NTP--ANTICIPATED CARCINOGEN; IARC--POSSIBLE CARCINOGEN (2B); ACGIH--SUSPECTED CARCINOGEN (A2); NIOSH--DEFINED CARCINOGEN. METHYLENE CHLORIDE HAS CAUSED CANCER IN CERTAIN LABORATORY ANIMAL TESTS. RISK TO YOUR HEALTH DEPENDS ON LEVEL AND DURATION OF EXPOSURE. | | | | | | | |
| METHANOL | ACGIH | PPM | 200.0 | 250.0 | N/E | Y | N/E |
| | OSHA | PPM | 200.0 | 250.0 | N/E | Y | 200.0 |
| AMMONIUM HYDROXIDE SOLUTION | ACGIH | PPM | N/E | N/E | N/E | N | N/E |
| | OSHA | PPM | N/E | N/E | N/E | N | N/E |
| AMMONIA | ACGIH | PPM | 25.0 | 35.0 | N/E | N | N/E |
| | OSHA | PPM | N/E | 35.0 | N/E | N | 50.0 |

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.

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SECTION 4. OTHER REGULATORY INFORMATION

CALIFORNIA (PROPOSITION #65)
WARNING: Using this product will expose you to Methylene Chloride, which is known to cause cancer.

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):

| INGREDIENT DESCRIPTION | PERCENT BY WEIGHT (UPPER LIMIT) | CAS# |
|------------------------|------------------------------------|---------|
| METHANOL | 10 | 67-56-1 |
| METHYLENE CHLORIDE | 85 | 75-09-2 |

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 5. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS

Vapor harmful. May cause dizziness; headache; watering of eyes; injuries to mucous membranes; bronchospasm; irritation of the throat and respiratory tract; nausea; numbness in fingers, arms and legs; hot Flashes; spotted vision; dilation of pupils; increase of carboxyhemoglobin levels, which can cause stress to the cardiovascular system; arm, leg and chest pains; bronchitis pulmonary edema; chemical pneumonitis; difficulty breathing; depression of the central nervous system; vomiting; visual disturbances; giddiness; intoxication; sleepiness; cough and dyspnea; cold, clammy extremities; diarrhea; and tissue damage. Severe overexposure may cause irregular or rapid heartbeat, convulsions, unconsciousness, and death. Elevated carboxyhemoglobin levels can be additive to the increase caused by smoking and other carbon monoxide sources.

SKIN CONTACT ACUTE EXPOSURE EFFECTS

This product is a skin irritant. May be absorbed through the skin. Harmful if absorbed through skin. May cause irritation; burns; blisters; drying of skin; defatting of skin; dermatitis; and tissue destruction. May cause symptoms listed under inhalation. Vapors and mist may irritate moist skin.

EYE CONTACT ACUTE EXPOSURE EFFECTS

This material is an eye irritant. May cause irritation and pain; conjunctivitis of eyes; corneal ulcerations of the eye; and blindness. Vapors and mist can irritate eyes.

INGESTION ACUTE EXPOSURE EFFECTS

POISON. CANNOT BE MADE NON-POISONOUS. May be fatal or cause blindness. May cause irritation to mouth, throat and stomach; headache; nausea; dizziness; vomiting; stupor; burning of esophagus, stomach, mouth and throat; collapse; gastrointestinal irritation; diarrhea; abdominal pain; depression of the central nervous system; narcosis; liver, kidney and heart damage; and death. May be corrosive to mouth

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SECTION 5. HAZARDS IDENTIFICATION
(CONTINUED)

and throat. May produce symptoms listed under inhalation. Liquid aspirated into lungs may cause chemical pneumonitis and systemic effects.

CHRONIC EXPOSURE EFFECTS

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged or repeated contact may cause dermatitis. Prolonged skin contact may result in absorption of a harmful amount of this material. May cause headache; conjunctivitis; gastric disturbances; skin irritation; pancreatic damage; permanent central nervous system changes; decreased response to visual and auditory stimulation; visual impairment or blindness; hallucinations; changes in blood; blood disorders; giddiness; insomnia; kidney damage; liver damage; and death. May produce additional symptoms listed under inhalation.

MEDICAL CONDITIONS AGGRAVATED

Diseases of the blood; skin; eyes; liver; kidneys; lungs; cardiovascular, pulmonary and respiratory systems; alcoholism; and rhythm disorders of the heart.

PRIMARY ROUTE OF EXPOSURE

Inhalation, ingestion, and dermal.

SECTION 6. 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 large quantities of water and seek medical attention if irritation from contact persists.

EYE CONTACT

Flush with large quantities of water for at least 15 minutes and seek immediate medical attention.

INGESTION

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

NOTE TO PHYSICIAN

Adrenalin should never be given to a person overexposed to methylene chloride. This formula is registered with POISINDEX. Call your poison control center for further information.

SECTION 7. FIRE FIGHTING MEASURES

| HAZARD RATING SOURCE | HMIS | NFPA |
|----------------------|------|------|
| HEALTH | 2 | 2 |
| FLAMMABILITY | 1 | 1 |
| REACTIVITY | 0 | 0 |
| OTHER | G | NA |

FLASH METHOD
Seta

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SECTION 7. FIRE FIGHTING MEASURES
(CONTINUED)

FLASH POINT
N/E F

N/E C No flash to boil.

LOWER EXPLOSION LIMIT
2.00

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. 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
Contact of liquid or vapor with flame or hot surfaces will produce toxic gases and a corrosive residue that will cause deterioration of metal.

SECTION 8. 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 9. HANDLING/STORAGE/TRANSPORTATION

STORAGE
Store in a cool, dry place. Exposure to high temperatures or prolonged exposure to sun may cause can to leak or swell. Once opened, remover should be used within six months or discarded to avoid can deterioration. 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.

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

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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 self-contained breathing apparatus for chlorinated solvent vapors. A dust mask does not provide protection against vapors.

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 % | BOILING POINT |
| 94.600 | GT 104.0 F 40.00 C |
| by weight | BOILING RANGE: 104 F - 212 F |
| VAPOR DENSITY (Air = 1.0) | EVAPORATION RATE |
| Heavier than air | Slower than ether |
| BULK DENSITY | PHOTOCHEMICALLY REACTIVE |
| 10.039 | NO |
| lbs/gal at 75 F | |

MAX V.O.C.

86 grams per liter (excluding exempt solvents & water)

MAX VAPOR PRESSURE

(of the V.O.C.) 16mm Hg at 20 degrees C

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SECTION 12. STABILITY AND REACTIVITY

INCOMPATIBILITIES

Incompatible with strong oxidizing agents; strong caustics; strong alkalis; oxygen; nitrogen peroxide; chemically active metals such as aluminum and magnesium; sodium; potassium; and nitric acid.

DECOMPOSITION

Thermal decomposition may produce hydrogen chloride; chlorine gas; small quantities of phosgene; carbon monoxide; carbon dioxide; formaldehyde; and unidentified organic compounds in black smoke.

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