

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 8/07/2003
 11861200 00000001 HMS WAREHOUSING GROUP

PAGE 1
 MSDS NO. 5000.1

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

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

ADDRESS
 2105 Channel Avenue
 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 #
 GTP0123

CHEMICAL FORMULA
 5000.1

PRODUCT NAME
 KS BULLDOG BOND FLEX TIE COAT

REVISED BY
 W.M. Barr Technical Services

REVISION DATE
 7/31/2003

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#	CARCINOGENICITY			
			NTP	ACGIH	OSHA	IARC
TOLUENE	25- 30	108-88-3	N	N	N	N
PROPRIETARY RESIN (A)	10- 15	N/A	N	N	N	N
** ABOVE INGREDIENT CONSISTS OF THE FOLLOWING **						
PROPRIETARY RESIN (A)	60- 65	N/A	N	N	N	N
PROPRIETARY RESIN (B)	1- 5	N/A	N	N	N	N
** ABOVE INGREDIENT CONSISTS OF THE FOLLOWING **						
PROPRIETARY RESIN (B)	95-100	N/A	N	N	N	N
PROPRIETARY RESIN (C)	1- 5	97-63-2	N	N	N	N
PROPRIETARY RESIN (D)	0- 1		N	N	N	N
PROPRIETARY RESIN (E)	0- 1	N/A	N	N	N	N
** ABOVE INGREDIENT CONSISTS OF THE FOLLOWING **						
PROPRIETARY RESIN (E)	95-100	N/A	N	N	N	N
KETONES	10- 15	N/A	N	N	N	N
ESTERS	10- 15	N/A	N	N	N	N
PETROLEUM DISTILLATE	10- 15	N/A	N	N	N	N
GLYCOL ETHER	1- 5	N/A	N	N	N	N

SECTION 3. REGULATORY INFORMATION

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	REG. AGCY U/M		TWA	STEL	CEIL	SKIN	PEL
	ACGIH	OSHA					
TOLUENE	ACGIH	PPM	50.00	N/E	N/E	Y	N/E
	OSHA	PPM	N/E	150.00	300.00	N	200.00
OSHA PEAK CONCENTRATION FOR 8 HR. SHIFT: 500 PPM FOR 10 MINUTES.							
PROPRIETARY RESIN (A)	ACGIH	PPM	50.00	100.00	N/E	N	N/E
	OSHA	PPM	N/E	100.00	N/E	N	50.00
PROPRIETARY RESIN (A)	ACGIH	PPM	50.00	100.00	N/E	N	N/E
	OSHA	PPM	N/E	100.00	N/E	N	50.00
PROPRIETARY RESIN (B)	ACGIH	PPM	10.00	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	10.00

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SECTION 3. REGULATORY INFORMATION (CONTINUED)								
PROPRIETARY RESIN (B)	ACGIH	PPM	10.00	N/E	N/E	N	N	N/F
	OSHA	PPM	N/E	N/E	N/E	N	1	N/F
PROPRIETARY RESIN (C)	ACGIH	PPM	N/E	N/E	N/E	N		N/F
	OSHA	PPM	N/E	N/E	N/E	N		N/F
PROPRIETARY RESIN (D)	ACGIH	PPM	50.00	N/E	N/E	Y		N/F
	OSHA	PPM	N/E	150.00	300.00	N		200.00
PROPRIETARY RESIN (E)	ACGIH	PPM	N/E	N/E	N/E	N		N/F
	OSHA	PPM	N/E	N/E	N/E	N		N/F
PROPRIETARY RESIN (E)	ACGIH	PPM	N/E	N/E	N/E	N		N/F
	OSHA	PPM	N/E	N/E	N/E	N		N/F
KETONES	ACGIH	PPM	200.00	300.00	N/E	N		N/E
	OSHA	PPM	200.00	300.00	N/E	N		200.00
ESTERS	ACGIH	PPM	150.00	N/E	N/E	N		N/F
	OSHA	PPM	150.00	N/E	N/E	N		N/F
PETROLEUM DISTILLATE	ACGIH	PPM	50.00	N/E	N/E	Y		N/F
	OSHA	PPM	200.00	N/E	300.00	N		N/F
GLYCOL ETHER	ACGIH	PPM	20.00	N/E	N/E	Y		N/F
	OSHA	PPM	N/E	N/E	N/E	Y		N/F

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)

WARNING: Using this product will expose you to chemicals which are known to cause cancer, birth defects or other reproductive harm.

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#
TOLUENE	30	108-88-3
PETROLEUM DISTILLATE	15	N/A

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.

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SECTION 4. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS

Vapor harmful. May cause dizziness; headache; irritation of the upper respiratory tract and lungs; irritation and injury to mucous membranes; watering of eyes; weakness; drowsiness; nausea; loss of coordination; numbness in fingers, arms and legs; depression of the central nervous system; loss of appetite; fatigue; stupor; anesthesia; narcosis; vomiting; lightheadedness; liver and kidney injury; insensibility and other central nervous system effects; blood disorders; nose tumors; brain damage; giddiness; olfactory changes; confusion; hearing impairment; slurred speech; coughing; hallucinations; irregular heartbeat; unconsciousness; coma; and death. Intentional misuse of this product by deliberately concentrating and inhaling can be harmful or fatal.

SKIN CONTACT ACUTE EXPOSURE EFFECTS

This product is a skin irritant. Product may be absorbed through skin. May cause irritation; drying and cracking of skin; defatting of skin; defatting of skin; dermatitis; itching; redness; swelling; tissue damage; inflammation; numbness in fingers and arms; discomfort or pain; erythema. May be absorbed readily to produce symptoms similar to those listed under ingestion.

EYE CONTACT ACUTE EXPOSURE EFFECTS

This material is an eye irritant. May cause irritation; redness; tearing; corneal clouding; discomfort or pain with excessive blinking and tear production; excess redness and possible slight swelling of the conjunctiva; stinging; conjunctivitis; visual intolerance to light. If not promptly removed, will injure eye tissue, which may result in permanent damage.

INGESTION ACUTE EXPOSURE EFFECTS

Harmful or fatal if swallowed. May cause dizziness; headache; drowsiness; nausea; weakness; loss of coordination; irritation to mouth, throat and stomach; vomiting; gastrointestinal irritation; diarrhea; loss of appetite; pain and discomfort; cough and hoarseness; salivation; changes in white blood cells; burning sensation in mouth and stomach; unconsciousness and coma. Ingestion of significant quantities may result in red blood cell hemolysis. Liquid aspirated into lungs can cause chemical pneumonitis, which can be fatal.

CHRONIC EXPOSURE EFFECTS

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged skin contact may result in absorption of a harmful amount of this material. Prolonged or repeated contact may cause dermatitis. May cause dizziness; headaches; weakness; eye irritation; drying and cracking of skin; dermatitis; fatigue; nausea; numbness in hands and feet; permanent central nervous system changes; some loss of memory; liver and kidney damage; blood disorders; thyroid effects; enlarged liver; and irritation to the respiratory tract. Prolonged or repeated contact may cause skin irritation, even a burn. Prolonged exposure may cause slight swelling of the conjunctiva, blurring of vision may occur. Prolonged skin contact may cause mild to moderate redness and swelling.

MEDICAL CONDITIONS AGGRAVATED

Diseases of the skin; liver; kidneys; and cardiovascular system.

PRIMARY ROUTE OF EXPOSURE

Inhalation, ingestion, and dermal.

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 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

Immediately wash with soap and water. If irritation persists, get medical attention.

EYE CONTACT

Immediately flush with water, remove any contact lens, continue flushing eyes with water for at least 15 minutes. If irritation persists, get medical attention.

INGESTION

DO NOT induce vomiting. Call your poison control center, hospital emergency room, or physician immediately.

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	2
FLAMMABILITY	3	3
REACTIVITY	0	0
OTHER	G	NA

FLASH METHOD
SETA

FLASH POINT
 39.00 F 3.88 C

LOWER EXPLOSION LIMIT
 .69

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. 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. VAPORS MAY CAUSE FLASH FIRE OR IGNITE EXPLOSIVELY. VAPORS MAY TRAVEL LONG DISTANCES TO OTHER AREAS AND ROOMS AWAY FROM WORK SITE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and all other sources of ignition anywhere in the structure, dwelling or building during use and until all vapors are gone from the work site and all areas away from the work site. Keep away from electrical outlets and switches. Beware of static electricity that may be generated by synthetic clothing and other sources.

KLEAN-STRIP GILLESPIE KWIK DUFFY'S EL PICO P&D

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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**

Store in a cool, dry place. 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**

DOMESTIC: RESIN SOLUTION, 3, UN1866, PGII

IMDG: RESIN SOLUTION FLAMMABLE, 3, UN1866, PGII, FLASHPOINT 39F (3.88C), EMS: 3-05

IATA: Resin solution flammable, 3, UN1866, PGII, Flashpoint 39F (3.88C), ERG Code: 3L

SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION
-----**VENTILATION PROTECTION**

Do not use in areas where vapors can accumulate and concentrate such as basements, bathrooms or small enclosed areas. **USE ONLY WITH ADEQUATE VENTILATION TO PREVENT BUILDUP OF VAPORS.** Whenever possible use outdoors in an open air area. If using indoors open all windows and doors and maintain 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

If the work area is not well ventilated you **MUST** use a properly fitted and maintained NIOSH approved respirator for organic 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.

KLEAN-STRIP GILLESPIE KWIK DUFFY'S EL PICO P&D

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SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION
(CONTINUED)

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 %

82.75

BY WEIGHT

BOILING POINT

GT 80.00 F 26.66 C BOILING RANGE: 80 F - 380 F

VAPOR DENSITY (Air = 1.0)

HEAVIER THAN AIR

EVAPORATION RATE

SLOWER THAN ETHER

BULK DENSITY

7.539

LBS/GAL AT 75 DEGREES C

pH FACTOR

N/E

PHOTOCHEMICALLY REACTIVE

YES

MAX V.O.C.

748 grams per liter.

MAX VAPOR PRESSURE

26mm Hg at 20 degrees C.

SECTION 12. STABILITY AND REACTIVITY

INCOMPATIBILITIES

Incompatible with strong oxidizing agents; strong caustics; acids; strong bases; hydrogen peroxide; nitric acid; nitrates; sulfuric acid; amines; chemically active metals; salts; aldehydes; ammonia; and halogens.

DECOMPOSITION

Thermal decomposition may produce carbon monoxide; carbon dioxide; acrylic monomers; acrid smoke and fumes.

POLYMERIZATION

Will not occur.

STABILITY

Stable.

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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