

MATERIAL SAFETY  
DATA SHEET

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**DIVISION:** AUTOMOTIVE AFTERMARKET  
**TRADE NAME:**

3M Penetrant, P.N. 08925, 08876

**ID NUMBER/U.P.C.:** 60-9800-1819-0 00-51135-08925-5 60-9800-2104-6 00-51135-08876-0

**ISSUED:** NOVEMBER 8, 1999

**SUPERSEDES:** JULY 27, 1999

**DOCUMENT:** 05-5704-1

1. INGREDIENT	C.A.S. NO.	PERCENT	
STODDARD SOLVENT .....	8052-41-3	35.0	- 45.0
HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES .....	64742-52-5	10.0	- 25.0
MINERAL OIL .....	64741-89-5	10.0	- 25.0
HEPTANE .....	142-82-5	1.0	- 10.0
PROPANE .....	74-98-6	1.0	- 10.0
BUTANE .....	106-97-8	1.0	- 10.0
BUTYL ALCOHOL .....	71-36-3	3.0	- 7.0
1,2,4-TRIMETHYLBENZENE .....	95-63-6	0.5	- 1.5
XYLENE .....	1330-20-7	<	0.5

**NOTE:** The components of this product are in compliance with the chemical  
notification requirements of TSCA.

**THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING  
REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY  
RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372:**

BUTYL ALCOHOL  
1,2,4-TRIMETHYLBENZENE  
XYLENE

**2. PHYSICAL DATA**

**BOILING POINT:**..... Compressed Gas  
**VAPOR PRESSURE:**..... Compressed Gas  
**VAPOR DENSITY:**..... > 1.00 Air = 1  
**EVAPORATION RATE:**..... > 1.00 Ether = 1  
**SOLUBILITY IN WATER:**..... Very slight  
**SP. GRAVITY:**..... 0.78 Water = 1  
**PERCENT VOLATILE:**..... 65 % by wt  
**pH:**..... N/D  
**VISCOSITY:**..... N/A  
**MELTING POINT:**..... N/D  
**APPEARANCE AND ODOR:** Liquid in aerosol container, thin black, solvent odor

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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**3. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:..... -20 F T.C.C.

FLAMMABLE LIMITS - LEL: ..... N/D

FLAMMABLE LIMITS - UEL: ..... N/D

AUTOIGNITION TEMPERATURE: ... N/D

**EXTINGUISHING MEDIA:**

Carbon dioxide, Dry chemical, Foam

**SPECIAL FIRE FIGHTING PROCEDURES:**

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 4 REACTIVITY: 0 AEROSOL STORAGE: 3  
UNUSUAL REACTION HAZARD: none**4. REACTIVITY DATA**

STABILITY: Stable

**INCOMPATIBILITY - MATERIALS TO AVOID:**

Heat.

HAZARDOUS POLYMERIZATION: Will Not Occur

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon Monoxide and Carbon Dioxide.

**5. ENVIRONMENTAL INFORMATION****SPILL RESPONSE:**

Observe precautions from other sections. Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Place in a U.S. DOT-approved container.

**RECOMMENDED DISPOSAL:**

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Facility must be capable of handling aerosol cans. Dispose of empty cans in a sanitary landfill. Dispose of completely absorbed waste product in a facility permitted to accept chemical wastes.

**ENVIRONMENTAL DATA:**

Not determined.

**REGULATORY INFORMATION:**

Volatile Organic Compounds: 65 % by wt.

Volatile Organic Compounds: 4.22 lb/gal calculated per SCAQMD rule 443.1.

Volatile Organic Compounds: 505 gms/liter calculated per SCAQMD rule 443.1.

VOC Less H2O &amp; Exempt Solvents: 505 gms/liter calculated per SCAQMD

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**5. ENVIRONMENTAL INFORMATION (continued)**

rule 443.1.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

**EPCRA HAZARD CLASS:****FIRE HAZARD:** Yes **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes**6. SUGGESTED FIRST AID****EYE CONTACT:**

Immediately flush eyes with large amounts of water. Get immediate medical attention.

**SKIN CONTACT:**

Flush skin with large amounts of water. If irritation persists, get medical attention.

**INHALATION:**

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**IF SWALLOWED:**

Do not induce vomiting. Drink two glasses of water. Call a physician.

**7. PRECAUTIONARY INFORMATION****EYE PROTECTION:**

Avoid eye contact with vapor, spray, or mist. The following should be worn alone or in combination, as appropriate, to prevent eye contact: Wear vented goggles. Wear safety glasses with side shields.

**SKIN PROTECTION:**

Avoid prolonged or repeated skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: nitrile rubber, polyvinyl alcohol, fluoroelastomer (Viton).

**VENTILATION PROTECTION:**

Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

**RESPIRATORY PROTECTION:**

Avoid breathing of vapors, mists or spray.

**PREVENTION OF ACCIDENTAL INGESTION:**

Do not ingest.

**RECOMMENDED STORAGE:**

Store at temperatures below 120 degrees F (49 degrees C). Keep out

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**7. PRECAUTIONARY INFORMATION (continued)**

of the reach of children.

**FIRE AND EXPLOSION AVOIDANCE:**

Aerosol container contains flammable gas under pressure. Keep away from heat, sparks, open flame, and other sources of ignition. Extremely flammable liquid and vapor. Do not pierce or burn container, even after use. Avoid static discharge.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
STODDARD SOLVENT	100	ppm	TWA	ACGIH	
STODDARD SOLVENT	100	ppm	TWA	OSHA	
HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES	5	mg/m3	TWA	CMRG	
HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES	10	mg/m3	STEL	CMRG	
MINERAL OIL	NONE	NONE	NONE	NONE	
HEPTANE	400	ppm	TWA	ACGIH	
HEPTANE	500	ppm	STEL	ACGIH	
HEPTANE	400	ppm	TWA	OSHA	
HEPTANE	500	ppm	STEL	OSHA	
PROPANE	1000	ppm	TWA	OSHA	
PROPANE	2500	ppm	TWA	ACGIH	
BUTANE	800	ppm	TWA	ACGIH	
BUTANE	800	ppm	TWA	OSHA	
BUTYL ALCOHOL	50	ppm	CEIL	OSHA	Y
BUTYL ALCOHOL	50	ppm	CEIL	ACGIH	Y
1,2,4-TRIMETHYLBENZENE	NONE	NONE	NONE	NONE	
XYLENE	100	ppm	TWA	ACGIH	
XYLENE	150	ppm	STEL	ACGIH	
XYLENE	100	ppm	TWA	OSHA	
XYLENE	150	ppm	STEL	OSHA	

\* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

**SOURCE OF EXPOSURE LIMIT DATA:**

- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level G
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

**8. HEALTH HAZARD DATA****EYE CONTACT:**

Moderate Eye Irritation: signs/symptoms can include redness, swelling,

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**8. HEALTH HAZARD DATA** (continued)

pain, tearing, and hazy vision.

**SKIN CONTACT:**Mild Skin Irritation (after prolonged or repeated contact):  
signs/symptoms can include redness, swelling, and itching.**INHALATION:**

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include  
headache, dizziness, drowsiness, incoordination, slowed reaction time,  
slurred speech, giddiness and unconsciousness.Irritation (upper respiratory): signs/symptoms can include soreness  
of the nose and throat, coughing and sneezing.WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE  
INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED  
ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE  
NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Hearing Loss.

**IF SWALLOWED:**

Ingestion is not a likely route of exposure to this product.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE  
INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED  
ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE  
NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.Irritation of Gastrointestinal Tissues: signs/symptoms can include  
pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and  
blood in feces.**SECTION CHANGE DATES**

INGREDIENTS	SECTION CHANGED SINCE	JULY 27, 1999 ISSUE
PRECAUT. INFO.	SECTION CHANGED SINCE	JULY 27, 1999 ISSUE

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**SECTION CHANGE DATES**

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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