

MATERIAL SAFETY DATA SHEET

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Address: 3M CENTER
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MSDS Number: 3M8987 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: 3M ADHESIVE CLEANER/WAX REMOVER
HMIS Ratings:
 Health: Moderate(2)
 Flammability: Extreme(4)
 Instability/Reactivity: Minimal(0)
 Personal Protective Equipment: SEE PPE SECTION

NFPA Ratings:
 Health: Moderate(2)
 Flammability: Extreme(4)
 Instability/Reactivity: Minimal(0)

Other:

AEROSOL STORAGE: 3
 SPECIAL HAZARDS: NONE

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
XYLENE	1330-20-7	40 - 50	100 PPM 150 PPM	100 PPM 150 PPM	CMRG: 50 PPM CMRG: 75 PPM		
Notes							
PROPANE	74-98-6	10 - 30	1000 PPM	1000 PPM			
Notes							
ETHYL BENZENE	100-41-4		100 PPM 125 PPM	100 PPM 125 PPM	CMRG: 25 PPM CMRG: 75 PPM		
Notes							
TOLUENE	108-88-3	<=0.76455	20 PPM	200 PPM	OSHA: 100 PPM, VACATED; CEIL: 300 PPM OSHA: 150 PPM, VAVATED;CMRG: 75 PPM		
Notes	LISTED SUBSTANCE INDICATES 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.						
BENZENE	71-43-2		0.5 PPM 2.5 PPM	1 PPM 5 PPM			
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VM P NAPHTHA	8032-32-4	40 - 50	300 PPM	300 PPM	CMRG: 100 PPM		
Notes							

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes:	MODERATE EYE IRRITATION: SIGNS/SYMPTOMS CAN INCLUDE REDNESS, SWELLING, PAIN, TEARING, AND BLURRED OR HAZY VISION.
Skin:	MODERATE SKIN IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE LOCALIZED REDNESS, SWELLING, ITCHING, AND DRYNESS.
Ingestion:	GASTROINTESTINAL IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE ABDOMINAL PAIN, STOMACH UPSET, NAUSEA, DIARRHEA AND VOMITING. CHEMICAL (ASPIRATION) PNEUMONITIS: SIGNS/SYMPTOMS MAY INCLUDE COUGHING, GASPING, CHOKING, BURNING OF THE MOUTH, DIFFICULTY BREATHING, BLuish COLORED SKIN (CYANOSIS), AND MAY BE FATAL. MAY BE ABSORBED FOLLOWING INGESTION AND CAUSE TARGET ORGAN EFFECTS.
Inhalation:	INTENTIONAL CONCENTRATION AND INHALATION MAY BE HARMFUL OR FATAL. RESPIRATORY TRACT IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE COUGH, SNEEZING, NASAL DISCHARGE, HEADACHE, HOARSENESS, AND NOSE AND THROAT PAIN. CARDIAC SENSITIZATION: SIGN/SYMPTOMS MAY INCLUDE IRREGULAR HEARTBEAT (ARRHYTHMIA), FAINTNESS, CHEST PAIN, AND MAY BE FATAL. MAY BE ABSORBED FOLLOWING INHALATION AND CAUSE TARGET ORGAN EFFECTS.
Other:	CONTAINS A CHEMICAL OR CHEMICALS WHICH CAN CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. CARCINOGENICITY: CONTAINS A CHEMICAL OR CHEMICALS WHICH CAN CAUSE CANCER. BENZENE: CAS# 71-43-2; CLASS DESCRIPTION: GROUP 1; REGULATION: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER BENZENE: CAS# 71-43-2; CLASS DESCRIPTION: KNOWN HUMAN CARCINOGEN; REGULATION: NATIONAL TOXICOLOGY PROGRAM CARCINOGENS BENZENE: CAS# 71-43-2; CLASS DESCRIPTION: CANCER HAZARD; REGULATION: OSHA CARCINOGENS ETHYLBENZENE: CAS# 100-41-4; CLASS DESCRIPTION: GROUP 2B; REGULATION: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.

IV. FIRST AID MEASURES

Eyes:	IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER. IF SIGNS/SYMPTOMS PERSIST, GET MEDICAL ATTENTION.
Skin:	REMOVE CONTAMINATED CLOTHING AND SHOES. IMMEDIATELY FLUSH SKIN WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING AND CLEAN SHOES BEFORE REUSE.
Ingestion:	DO NOT INDUCE VOMITING. GIVE VICTIM TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET IMMEDIATE MEDICAL ATTENTION.
Inhalation:	REMOVE PERSON TO FRESH AIR. GET IMMEDIATE MEDICAL ATTENTION.
Other:	NOTE TO PHYSICIANS: EXPOSURE MAY INCREASE MYOCARDIAL IRRITABILITY. DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY.

V. FIRE FIGHTING MEASURES

Flash Point:	-42° F (PROPELLANT)
Lower Flammability Limit:	NO DATA AVAILABLE
Upper Flammability Limit:	NO DATA AVAILABLE

- Extinguishing Agents:** USE FIRE EXTINGUISHERS WITH CLASS B EXTINGUISHING AGENTS (E.G., DRY CHEMICAL, CARBON DIOXIDE).
- Unusual Fire or Explosion Hazards:** EXTREMELY FLAMMABLE LIQUID AND VAPOR. AEROSOL CONTAINER CONTAINS FLAMMABLE MATERIAL UNDER PRESSURE. 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.
- Fire Fighting Procedures:** WATER MAY NOT EFFECTIVELY EXTINGUISH FIRE; HOWEVER IT SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS AND SURFACES COOL AND PREVENT EXPLOSIVE RUPTURE. WEAR FULL PROTECTIVE EQUIPMENT (BUNKER GEAR) AND A SELF-CONTAINED BREATHING APPARATUS (SCBA).
- Other:** FIRE AND EXPLOSION AVOIDANCE:
AEROSOL CONTAINER CONTAINS FLAMMABLE GAS UNDER PRESSURE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION. PREVENT ALL SOURCES OF IGNITION. EXTREMELY FLAMMABLE LIQUID AND VAPOR. DO NOT PIERCE OR BURN CONTAINER, EVEN AFTER USE. VAPORS MAY IGNITE EXPLOSIVELY. AVOID STATIC DISCHARGE.

VI. ACCIDENTAL RELEASE MEASURES

- Containment/Cleanup:** IF POSSIBLE, SEAL LEAKING CONTAINER. PLACE LEAKING CONTAINERS IN A WELL-VENTILATED AREA, PREFERABLY AN OPENING EXHAUST HOOD, OR IF NECESSARY OUTDOORS ON AN IMPERMEABLE SURFACE UNTIL APPROPRIATE PACKAGING FOR THE LEAKING CONTAINER OR ITS CONTENTS IS AVAILABLE. EVACUATE UNPROTECTED AND UNTRAINED PERSONNEL FROM HAZARD AREA. THE SPILL SHOULD BE CLEANED UP BY QUALIFIED PERSONNEL. REMOVE ALL IGNITION SOURCES SUCH AS FLAMES, SMOKING MATERIAL, AND ELECTRICAL SPARK SOURCES. USE ONLY NON-SPARKING TOOLS. FOR LARGE SPILL, OR SPILLS IN CONFINED SPACES, PROVIDE MECHANICAL VENTILATION TO DISPERSE OR EXHAUST VAPORS, IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE PRACTICE. WARNING! A MOTOR COULD BE AN IGNITION SOURCE AND COULD CAUSE FLAMMABLE GASES OR VAPORS IN THE SPILL AREA TO BURN OR EXPLODE. CONTAIN SPILL. FOR LARGER SPILLS, COVER DRAINS AND BUILD DIKES TO PREVENT ENTRY INTO SEWER SYSTEMS OR BODIES OF WATER. COVER SPILL AREA WITH A FIRE-EXTINGUISHING FOAM. AN AQUEOUS FILM FORMING FOAM (AFFF) IS RECOMMENDED. WORKING FROM AROUND THE EDGES OF THE SPILL INWARD, COVER WITH BENTONITE, VERMICULITE, OR COMMERCIALY AVAILABLE INORGANIC ABSORBENT MATERIAL. MIX IN SUFFICIENT ABSORBENT UNTIL IT APPEARS DRY. REMEMBER, ADDING AN ABSORBENT MATERIAL DOES NOT REMOVE A TOXIC, CORROSIVITY OR FLAMMABILITY HAZARD. COLLECT AS MUCH OF THE SPILLED MATERIAL AS POSSIBLE USING NON-SPARKING TOOLS. CLEAN UP RESIDUE WITH AN APPROPRIATE SOLVENT SELECTED BY A QUALIFIED AND AUTHORIZED PERSON. VENTILATE THE AREA WITH FRESH AIR. READ AND FOLLOW SAFETY PRECAUTIONS ON THE SOLVENT LABEL AND MSDS. COLLECT THE RESULTING RESIDUE CONTAINING SOLUTION. PLACE IN A METAL CONTAINER APPROVED FOR TRANSPORTATION BY APPROPRIATE AUTHORITIES. SEAL THE CONTAINER. DISPOSE OF COLLECTED MATERIAL AS SOON AS POSSIBLE.
- Other:** IN THE EVENT OF A RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE QUALIFIES AS REPORTABLE ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.

VII. HANDLING AND STORAGE

- Other:** HANDLING:
DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS WITH SOAP AND WATER. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, PILOT LIGHTS AND OTHER SOURCES OF IGNITION. GROUND

CONTAINERS SECURELY WHEN TRANSFERRING CONTENTS. WEAR LOW STATIC OR PROPERLY GROUNDED SHOES. DO NOT PIERCE OR BURN CONTAINER, EVEN AFTER USE. NO SMOKING WHILE HANDLING THIS MATERIAL. DO NOT SPRAY NEAR FLAMES OR SOURCES OF IGNITION. AVOID BREATHING OF VAPORS, MISTS, OR SPRAY. AVOID SKIN CONTACT. AEROSOL CONTAINER CONTAINS FLAMMABLE GAS UNDER PRESSURE. AVOID STATIC DISCHARGE. AVOID EYE CONTACT WITH VAPORS, MISTS OR SPRAY. KEEP OUT OF THE REACH OF CHILDREN. AVOID CONTACT WITH OXIDIZING AGENTS.

STORAGE:

STORE AWAY FROM ACIDS. STORE AWAY FROM HEAT. STORE OUT OF DIRECT SUNLIGHT. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE CONTAINERS ON THEIR SIDES. STORE AWAY FROM OXIDIZING AGENTS.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	AVOID EYE CONTACT WITH VAPOR, MISTS, OR SPRAY. THE FOLLOWING EYE PROTECTION(S) ARE RECOMMENDED: SAFETY GLASSES WITH SIDE SHIELDS, INDIRECT VENTED GOGGLES.
Skin:	AVOID SKIN CONTACT. SELECT AND USE GLOVES AND/OR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT BASED ON THE RESULTS OF AN EXPOSURE ASSESSMENT. CONSULT WITH YOUR GLOVE AND/OR PROTECTIVE CLOTHING MANUFACTURER FOR SELECTION OF APPROPRIATE COMPATIBLE MATERIALS. GLOVES MADE FROM THE FOLLOWING MATERIAL(S) ARE RECOMMENDED: FLUOROELASTOMER (VITON), POLYETHYLENE/ETHYLENE VINYL ALCOHOL.
Respiratory:	AVOID BREATHING OF VAPORS, MIST OR SPRAY. SELECT ONE OF THE FOLLOWING NIOSH APPROVED RESPIRATORS BASED ON AIRBORNE CONCENTRATION OF CONTAMINANTS AND IN ACCORDANCE WITH OSHA REGULATIONS: HALF FACEPIECE OR FULLFACE AIR-PURIFYING RESPIRATOR WITH ORGANIC VAPOR CARTRIDGES AND P95 PARTICULATE PREFILLERS, HALF FACEPIECE OR FULLFACE PRESSURE DEMAND SELF-CONTAINED BREATHING APPARATUS.
Engineering:	USE WITH APPROPRIATE LOCAL EXHAUST VENTILATION ON OPEN CONTAINERS. IF EXHAUST VENTILATION IS NOT AVAILABLE, USE APPROPRIATE RESPIRATORY PROTECTION. DO NOT USE IN A CONFINED AREA OR AREAS WITH LITTLE OR NO AIR MOVEMENT. DO NOT REMAIN IN AREA WHERE AVAILABLE OXYGEN MAY BE REDUCED. USE GENERAL DILUTION VENTILATION AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE EXPOSURES TO BELOW OCCUPATIONAL EXPOSURE LIMITS AND/OR CONTROL MIST, VAPOR, OR SPRAY. IF VENTILATION IS NOT ADEQUATE, USE RESPIRATORY PROTECTION EQUIPMENT.
Other:	PREVENTION OF SWALLOWING: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	CLEAR SPRAY
Boiling Point:	COMPRESSED GAS
pH:	NOT APPLICABLE
Solubility in Water:	NIL
Specific Gravity:	0.738 (H ₂ O=1)
Vapor Pressure:	50 PSI [CONDITIONS: @ 70° F]
Vapor Density:	>=1 (AIR=1)
Physical State:	AEROSOL; GENERAL: LIQUID
Volatile Content:	VOLATILE ORGANIC COMPOUNDS: 100% WEIGHT PERCENT VOLATILE: 100% WEIGHT

Other: DENSITY: 0.738 G/ML
 MELTING POINT: NOT APPLICABLE
 EVAPORATION RATE: NO DATA AVAILABLE
 VOC LESS H₂O & EXEMPT SOLVENTS: 738 G/L
 [TEST METHOD: CALCULATED SCAQMD RULE 443.1]
 VISCOSITY: NO DATA AVAILABLE

X. STABILITY AND REACTIVITY

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR

Hazardous Decomposition Products: CARBON MONOXIDE: NOT SPECIFIED; CARBON DIOXIDE: NOT SPECIFIED;
 TOXIC VAPORS, GASES OR PARTICULATES: NOT SPECIFIED.

Conditions To Avoid: HEAT; SPARKS AND/OR FLAMES; STRONG OXIDIZING AGENTS

XI. TOXICOLOGICAL INFORMATION

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: NOT DETERMINED

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: INCINERATE IN A PERMITTED HAZARDOUS WASTE INCINERATOR. AS A DISPOSAL ALTERNATIVE, DISPOSE OF WASTE PRODUCT IN A PERMITTED HAZARDOUS WASTE FACILITY.
 FACILITY MUST BE CAPABLE OF HANDLING AEROSOL CANS. DISPOSE OF EMPTY CANS IN A SANITARY LANDFILL.

RCRA Class: D001 (IGNITABLE); D018 (BENZENE)

Other: SINCE REGULATIONS VARY, CONSULT APPLICABLE REGULATIONS OR AUTHORITIES BEFORE DISPOSAL.

XIV. TRANSPORT INFORMATION

DOT Label(s) Required: GROUND (U.S. DOT, 49CFR) CONSUMER COMMODITY, ORM-D . < BR> VESSEL (U.S. DOT, 49CFR) CONSUMER COMMODITY, ORM-D .

Other: TRANSPORT PROTECTIVE SERVICE: PROTECTIVE SERVICE NOT REQUIRED
 NMFC ITEM: 048580
 NMFC SUB: 03
 NMFC CLASS: 055.0
 FLASH POINT: (CLOSED-CUP): NO FLASH POINT
 ID NUMBERS: 60-4550-3068-8, 60-4550-4585-0, 60-9800-2679-7

Label(s): INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): UN1950, AEROSOLS, FLAMMABLE, 2.1; INTERNATIONAL MARITIME ORGANIZATION (IMO): UN1950, AEROSOLS, 2.1, LIMITED QUANTITY

XV. REGULATORY INFORMATION

TSCA Status: THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CHEMICAL NOTIFICATION REQUIREMENTS OF TSCA.

EPA Sara Title III Chemical Listings: SECTION 311/312 HAZARD CATEGORIES:
 FIRE HAZARD: YES; PRESSURE HAZARD: YES; REACTIVITY HAZARD: NO;
 IMMEDIATE HAZARD: YES; DELAYED HAZARD: YES
 SECTION 313 TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS

OF THAT SECTION AND 40 CFR PART 372 (EPCRA):
XYLENE; CAS#: 1330-20-7; % BY WT: 40-50
ETHYLBENZENE; CAS # 100-41-4; % BY WT: <12

California:

PROP 65: *WARNING CONTAINS A CHEMICAL OR CHEMICALS WHICH CAN
CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
**WARNING:CONTAINS A CHEMICAL WHICH CAN CAUSE CANCER.
BENZENE: CAS#71-43-2; *MALE REPRODUCTIVE TOXIN
BENZENE: CAS#71-43-2; **CARCINOGEN
BENZENE: CAS#: 71-43-2; *DEVELOPMENTAL TOXIN
ETHYLBENZENE: CAS#100-41-4; **CARCINOGEN
TOLUENE CAS#: 108-88-3; *DEVELOPMENTAL TOXIN

Other:

ALL APPLICABLE CHEMICAL INGREDIENTS IN THIS MATERIAL ARE LISTED ON
THE EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS),
OR ARE EXEMPT POLYMERS WHOSE MONOMERS ARE LISTED ON EINECS.
WHMIS: HAZARDOUS

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION.
NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND
SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD
REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE
WHETHER
THEY ARE APPROPRIATE.