

MATERIAL SAFETY DATA SHEET

Company Name: 3M COMPANY
Address: 3M CENTER
City / State / Zip: ST. PAUL / MN / 55144
US-CHEMTREC Phone(I): (800)424-9300
US-CHEMTREC Phone(II): (703)527-3887
CAN-CANUTEC Phone: (613)996-6666
Vendor Update: 12/31/2009
Date Prepared: 1/20/2010
MSDS Number: 3M8882 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: 3M UNDERSEAL UNDERCOAT SPRAY
HMIS Ratings:
NFPA Ratings:

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

Other:

AEROSOL STORAGE CODE: 2
 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
ACETONE	67-64-1	30 - 60	500 PPM 750 PPM	1000 PPM 1000 PPM, VACATED	750 PPM, VACATED		
Notes	TABLE A4						
PROPANE	74-98-6	10 - 30	1000 PPM	1000 PPM			
Notes							
TOLUENE	108-88-3	10 - 30	50 PPM	200 PPM; 100 PPM, VACATED 150 PPM, VACATED	CELL: 300 PPM CMRG: 75 PPM*		
Notes	* SKIN NOTATION: SUBSTANCE(S) REFER TO THE POTENTIAL CONTRIBUTION TO THE OVERALL EXPOSURE BY THE CUTANEOUS ROUTE INCLUDING MUCOUS MEMBRANE AND EYE, EITHER BY AIRBOURNE OR, MORE PARTICULARLY, BY DIRECT CONTACT WITH THE SUBSTANCE. VEHICLES CAN ALTER SKIN ABSORPTION.						
HYDROCARBON POLYMERS	TRADE SECRET	7 - 13					
Notes							
BUTANE	106-97-8	5 - 10	1000 PPM	800 PPM			
Notes							
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	3 - 7			CMRG: 300 PPM		
Notes							
CALCIUM CARBONATE	471-34-1	1 - 5	10 MG/M3				
Notes							
CARBON BLACK	1333-86-4		3.5 MG/M3	3.5 MG/M3	CMRG: 0.5 MG/M3		
Notes							

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes:	MODERATE EYE IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE REDNESS, SWELLING, PAIN, TEARING, AND BLURRED OR HAZY VISION.
Skin:	MILD SKIN IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE LOCALIZED REDNESS, SWELLING, AND ITCHING. MAY BE ABSORBED THROUGH SKIN AND CAUSE TARGET ORGAN EFFECTS.
Ingestion:	INGESTION MAY CAUSE: GASTROINTESTINAL IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE ABDOMINAL PAIN, NAUSEA, DIARRHEA AND VOMITING.
Inhalation:	INTENTIONAL CONCENTRATION AND INHALATION MAY BE HARMFUL OR FATAL. UPPER RESPIRATORY TRACT IRRITATION: SIGNS/SYMPTOMS MAY INCLUDE COUGH, SNEEZING, NASAL DISCHARGE, HEADACHE, HOARENESS, AND NOSE AND THROAT PAIN. SINGLE EXPOSURE, ABOVE RECOMMENDED GUIDELINES, MAY CAUSE: SIMPLE ASPHYXIATION: SIGNS/SYMPTOMS MAY INCLUDE INCREASED HEART RATE, RAPID RESPIRATIONS, DROWSINESS, HEADACHE, INCOORDINATION, ALTERED JUDGEMENT, NAUSEA, VOMITING, LETHARGY, SEIZURES, COMA 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. CARBON BLACK: CAS# 1333-86-4; CLASS DESCRIPTION: GROUP 2B; REGULATION: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.

IV. FIRST AID MEASURES

Eyes:	FLUSH EYES WITH LARGE AMOUNTS OF WATER. IF SIGNS/SYMPTOMS PERSIST, GET MEDICAL ATTENTION.
Skin:	WASH AFFECTED AREA WITH SOAP AND WATER. IF SIGNS/SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.
Ingestion:	DO NOT INDUCE VOMITING. GIVE VICTIM TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.
Inhalation:	REMOVE PERSON TO FRESH AIR. IF SIGNS/SYMPTOMS PERSIST, GET MEDICAL ATTENTION.
Other:	THE FOLLOWING FIRST AID RECOMMENDATIONS ARE BASED ON AN ASSUMPTION THAT APPROPRIATE PERSONAL AND INDUSTRIAL HYGIENE PRACTICES ARE FOLLOWED.

V. FIRE FIGHTING MEASURES

Flash Point:	<0° F
Test Method:	CLOSED CUP
Lower Flammability Limit:	0.9
Upper Flammability Limit:	12.8
Extinguishing Agents:	USE FIRE EXTINGUISHERS WITH CLASS B EXTINGUISHERS (E.G., DRY CHEMICAL, CARBON DIOXIDE)

Unusual Fire or Explosion Hazards: CLOSED CONTAINERS EXPOSED TO HEAT FROM FIRE MAY BUILD PRESSURE AND EXPLODE. EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY TRAVEL LONG DISTANCES ALONG THE GROUND OR FLOOR TO AN IGNITION SOURCE AND FLASH BACK. AEROSOL CONTAINER CONTAINS FLAMMABLE MATERIAL UNDER PRESSURE.

Fire Fighting Procedures: SPECIAL 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: AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: 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 MATERIALS, AND ELECTRICAL SPARK SOURCES. USE ONLY NON-SPARKING TOOLS. VENTILATE THE AREA WITH FRESH AIR. CONTAIN SPILL. IF POSSIBLE SEAL LEAKING CONTAINER. PLACE LEAKING CONTAINER IN A WELL-VENTILATED AREA, PREFERABLY AN OPERATING EXHAUST HOOD, OR IF NECESSARY OUTDOORS ON AN IMPERMEABLE SURFACE UNTIL APPROPRIATE PACKAGING FOR THE LEAKING CONTAINER OR ITS CONTENTS IS AVAILABLE. COVER SPILL AREA WITH A FIRE-EXTINGUISHING FOAM DESIGNED FOR USE ON SOLVENTS, SUCH AS ALCOHOLS AND ACETONE, THAT CAN DISSOLVE IN WATER. AN AR-AFFF TYPE FOAM 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: VAPORS MAY IGNITE EXPLOSIVELY. MAY CAUSE FLASH FIRE. PREVENT BUILD-UP OF VAPORS – OPEN ALL WINDOWS AND DOORS. MAINTAIN VAPOR CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS. USE ONLY WITH CROSS-VENTILATION. WITHOUT ADEQUATE VENTILATION, VAPORS MAY SETTLE IN LOW-LYING AREAS. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. DO NOT SMOKE OR IGNITE MATCHES, LIGHTERS, ETC. EXTINGUISH PILOT LIGHTS AND TURN OFF STOVES, OVENS AND OTHER GAS AND ELECTRIC APPLIANCES (SPACE AND WATER HEATERS, FURNACES, ETC.) ELECTRIC MOTORS, AND OTHER SOURCES OF IGNITION DURING ADHESIVE USE AND UNTIL ALL VAPORS ARE GONE; I.E., UNTIL THE ODOR OF VAPORS AT THE FLOOR LEVEL HAS DISAPPEARED. DO NOT USE ELECTRIC LIGHT SWITCHES. DO NOT GENERATE STATIC SPARKS (SUCH AS BY WALKING ON CARPET, ETC.) USE THE SAME PRECAUTIONS IN THE WORK AREA AND ALL CONNECTED AREAS. AEROSOL CONTAINER CONTAINS FLAMMABLE GAS

UNDER PRESSURE. AVOID SKIN CONTACT, AVOID EYE CONTACT WITH VAPORS, MISTS, OR SPRAY. AVOID BREATHING OF VAPORS, MISTS OR SPRAY. DO NOT EAT, DRINK, OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER. AVOID CONTACT WITH OXIDIZING AGENTS. DO NOT PIERCE OR BURN CONTAINER, EVEN AFTER USE. FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. KEEP OUT THE REACH OF CHILDREN.

STORAGE

STORE AWAY FROM ACIDS. STORE AWAY FROM HEAT. STORE OUT OF DIRECT SUNLIGHT. STORE AT TEMPERATURE BELOW 120 FAHRENHEIT DEGREES FAHRENHEIT (49 DEGREES C).

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	AVOID EYE CONTACT. AVOID EYE CONTACT WITH VAPORS, 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), POLYVINYL ALCOHOL (PVA), POLYETHYLENE/ETHEL YNE VINYL ALCOHOL.
Respiratory:	AVOID BREATHING OF VAPORS, MISTS 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 PREFILTERS.
Engineering:	USE WITH APPROPRIATE LOCAL EXHAUST VENTILATION. DO NOT USE IN A CONFINED AREA OR AREAS WITH LITTLE OR NO AIR MOVEMENT. DO NOT REMAIN IN AREA WHEN 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. IF EXHAUST VENTILATION IS NOT AVAILABLE, USE APPROPRIATE RESPIRATORY PROTECTION.
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:	BLACK
pH:	NOT APPLICABLE
Solubility in Water:	MODERATE
Specific Gravity:	0.78 [REF STD: WATER=1]
Vapor Density:	> 1 (AIR = 1)
Physical State:	AEROSOL; GENERAL: LIQUID
Volatile Content:	VOLATILE ORGANIC COMPOUNDS: 38% WEIGHT; VOLATILE ORGANIC COMPOUNDS: 296 G/L
Other:	DENSITY: 6.51 LB/GAL [REFERS TO DENSITY OF THE LIQUID]

VOC LESS H₂O & EXEMPT SOLVENTS: 460 G/L
 VISCOSITY: NO DATA AVAILABLE

X. STABILITY AND REACTIVITY

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR

Hazardous Decomposition Products: CHLORINE: NOT SPECIFIED; CARBON MONOXIDE: NOT SPECIFIED; CARBON DIOXIDE: NOT SPECIFIED; PHOSGENE: NOT SPECIFIED; TOXIC VAPOR, GAS, PARTICULATE: NOT SPECIFIED

Conditions To Avoid: HEAT

XI. TOXICOLOGICAL INFORMATION

XII. ECOLOGICAL INFORMATION

Other: 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.

RCRA Class: D001 (IGNITABLE)

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

XIV. TRANSPORT INFORMATION

Other: TRANSPORT PROTECTIVE SERVICE: MAINTAIN TEMP BELOW 125°F(52°C)
 NMFC ITEM: 103300
 NMFC SUB: 07
 NMFC CLASS: 070.0
 FLASH POINT: (CLOSED-CUP):NO FLASH POINT
 ID NUMBER: 60-9801-0925-4

XV. REGULATORY INFORMATION

TSCA Status: THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CHEMICAL NOTIFICATION REQUIREMENTS OF TSCA. THIS MATERIAL CONTAINS A CHEMICAL WHICH REQUIRES EXPORT NOTIFICATION UNDER TSCA SECTION 12(B):
 INGREDIENT (CATEGORY IF APPLICABLE): ACETONE; C.A.S. NO: 67-64-1;
 REGULATION: TOXIC SUBSTANCES CONTROL ACT (TSCA) 4 TEST RULE CHEMICALS; STATUS: APPLICABLE

EPA Sara Title III Chemical Listings: 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):
 INGREDIENT: TOLUENE; CAS#: 108-88-3; % BY WT: 10 - 30

California: PROP 65: INGREDIENT: TOLUENE; C.A.S. NO: 108-88-3; CLASSIFICATION: *DEVELOPMENTAL TOXIN (*WARNING CONTAINS A CHEMICAL OR CHEMICALS WHICH CAN CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.)

Other:

CHEMICAL INVENTORIES: 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.