

MATERIAL SAFETY  
DATA SHEET

3M  
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DIVISION: IDENTIFICATION AND CONVERTER SYSTEMS DIV

## TRADE NAME:

Dynamark Brand 3900 Protective Coating, Aerosol

## ID NUMBER/U.P.C.:

70-0705-3396-6 00-21200-88698-0 75-3455-1005-3 00-51141-00048-0  
75-3464-5721-3 - - -

ISSUED: February 07, 1997

SUPERSEDES: August 22, 1996

DOCUMENT: 10-0179-1

1. INGREDIENT	C.A.S. NO.	PERCENT
METHYLENE CHLORIDE.....	75-09-2	30.0 - 40.0
PROPANE.....	74-98-6	10.0 - 20.0
CYCLOHEXANONE.....	108-94-1	7.0 - 13.0
N-AMYL ACETATE.....	628-63-7	7.0 - 13.0
N-BUTYL ACETATE.....	123-86-4	5.0 - 10.0
ACETONE.....	67-64-1	3.0 - 7.0
2-METHYLBUTYL ACETATE.....	624-41-9	2.0 - 5.0
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC.....	64742-89-8	2.0 - 5.0
TOLUENE.....	108-88-3	2.0 - 5.0
POLY(BUTYL METHACRYLATE).....	9003-63-8	1.0 - 4.0
BUTYL ALCOHOL.....	71-36-3	1.0 - 4.0
NITROCELLULOSE.....	9004-70-0	0.5 - 1.0
METHYL ISOBUTYL KETONE.....	108-10-1	0.5 - 1.0
ISOPROPYL ALCOHOL.....	67-63-0	0.5 - 1.0
ISOAMYL ACETATE.....	123-92-2	0.1 - 1.0
XYLENE.....	1330-20-7	0.1 - 1.0

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:

METHYLENE CHLORIDE  
TOLUENE  
BUTYL ALCOHOL  
METHYL ISOBUTYL KETONE  
XYLENE

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



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#### 4. REACTIVITY DATA

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STABILITY: Unstable

Do not store above 120 deg. F.

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Strong Oxidizing Agents, Heat.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Hydrogen Chloride, Hydrocarbons.

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#### 5. ENVIRONMENTAL INFORMATION

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SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. In the U.S.A., call (612) 733-1110 or (612) 733-6100 for 24-hour spill assistance. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with inorganic absorbent material. Collect spilled material. Collect using non-sparking tools. Clean up residue. Place in an approved metal container. Close cylinder or if necessary vent in hood or remote area. Place leaking containers in a well-ventilated area, preferably in an exhaust hood, if available, or outdoors.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Do not puncture or burn cans in a household incinerator. Facility must be capable of handling aerosol cans. Combustion products will include HCl. Dispose of empty cans in a sanitary landfill.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: ca. 525 gms/liter.

VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

EPCRA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: Yes REACTIVITY: No ACUTE: Yes CHRONIC: Yes

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## 6. SUGGESTED FIRST AID

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### EYE CONTACT:

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

### SKIN CONTACT:

Immediately flush skin with large amounts of water. Remove contaminated clothing. If irritation persists, call a physician. Wash contaminated clothing before reuse.

### INHALATION:

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

### IF SWALLOWED:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

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## 7. PRECAUTIONARY INFORMATION

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### EYE PROTECTION:

Avoid eye contact with vapor, spray, or mist. Wear unvented goggles during operations in which exposure is likely.

### SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: polyvinyl alcohol. Use one or more of the following personal protection items as necessary to prevent skin contact: apron. Protective garments (other than gloves) should be made of either of the following materials: polyvinyl alcohol.

### RECOMMENDED VENTILATION:

Use with appropriate local exhaust ventilation. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

### RESPIRATORY PROTECTION:

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-mask organic vapor respirator with dust/mist prefilter.

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7. PRECAUTIONARY INFORMATION (continued)  
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## PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

## RECOMMENDED STORAGE:

Store in a cool place. Store away from heat. Store at temperatures below 120 degrees F (49 degrees C). Store out of direct sunlight. Keep away from aluminum and zinc. Keep container dry. Keep container in well-ventilated area. Keep out of the reach of children.

## FIRE AND EXPLOSION AVOIDANCE:

Keep away from heat, sparks, open flame, and other sources of ignition. Do not pierce or burn container, even after use. No smoking while handling this material. Vapors may ignite explosively. Flammable liquified gas. Do not heat under confinement.

## EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
METHYLENE CHLORIDE.....	50	PPM	TWA	ACGIH	
METHYLENE CHLORIDE.....	1000	PPM	CEIL	OSHA	
METHYLENE CHLORIDE.....	500	PPM	TWA	OSHA	
METHYLENE CHLORIDE.....	2000	PPM	STEL	OSHA	
PROPANE.....	1000	PPM	TWA	OSHA	
PROPANE.....	NONE	NONE	NONE	ACGIH	
	Simple asphyxiant				
CYCLOHEXANONE.....	25	PPM	TWA	ACGIH	Y
CYCLOHEXANONE.....	25	PPM	TWA	OSHA	Y
N-AMYL ACETATE.....	100	PPM	TWA	ACGIH	
N-AMYL ACETATE.....	100	PPM	TWA	OSHA	
N-BUTYL ACETATE.....	150	PPM	TWA	OSHA	
N-BUTYL ACETATE.....	200	PPM	STEL	OSHA	
N-BUTYL ACETATE.....	150	PPM	TWA	ACGIH	
N-BUTYL ACETATE.....	200	PPM	STEL	ACGIH	
ACETONE.....	750	PPM	TWA	ACGIH	
ACETONE.....	1000	PPM	STEL	ACGIH	
ACETONE.....	750	PPM	TWA	OSHA	
ACETONE.....	1000	PPM	STEL	OSHA	
2-METHYLBUTYL ACETATE.....	NONE	NONE	NONE	NONE	
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC.....	300	PPM	TWA	CMRG	
TOLUENE.....	50	PPM	TWA	ACGIH	Y
TOLUENE.....	100	PPM	TWA	OSHA	
TOLUENE.....	150	PPM	STEL	OSHA	
POLY(BUTYL METHACRYLATE).....	NONE	NONE	NONE	NONE	
BUTYL ALCOHOL.....	50	PPM	CEIL	OSHA	Y
BUTYL ALCOHOL.....	50	PPM	CEIL	ACGIH	Y

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## EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
NITROCELLULOSE.....	NONE	NONE	NONE	NONE	
METHYL ISOBUTYL KETONE.....	50	PPM	TWA	ACGIH	
METHYL ISOBUTYL KETONE.....	75	PPM	STEL	ACGIH	
METHYL ISOBUTYL KETONE.....	50	PPM	TWA	OSHA	
METHYL ISOBUTYL KETONE.....	75	PPM	STEL	OSHA	
ISOPROPYL ALCOHOL.....	400	PPM	TWA	ACGIH	
ISOPROPYL ALCOHOL.....	500	PPM	STEL	ACGIH	
ISOPROPYL ALCOHOL.....	400	PPM	TWA	OSHA	
ISOPROPYL ALCOHOL.....	500	PPM	STEL	OSHA	
ISOAMYL ACETATE.....	100	PPM	TWA	ACGIH	
ISOAMYL ACETATE.....	100	PPM	TWA	OSHA	
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
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- NONE: None Established

## 8. HEALTH HAZARD DATA

## EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

## SKIN CONTACT:

Severe Skin Irritation: signs/symptoms can include redness, swelling, itching, dryness, cracking, blistering, and pain.

May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

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.

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

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8. HEALTH HAZARD DATA (continued)  
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## 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.

Single overexposure, above recommended guidelines, may cause:

Blood disorders: signs/symptoms can include prolonged weakness and fatigue.

Carboxyhemoglobinemia: signs/symptoms can include headache, drowsiness, and shortness of breath. Cherry-red skin color, coma and death can result from severe overexposure.

Pulmonary Edema: signs/symptoms can include coughing, congestion, difficulty breathing, which can result in respiratory failure and death.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Heart Effects: signs/symptoms can include arrhythmia, heart attack and death.

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

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.

Cardiac Sensitization: sudden heart stoppage due to a reflex effect on the nerves which control the heart. This effect usually occurs only after inhalation of concentrated vapors such as in intentional abusive sniffing of certain solvents and propellants.

Simple Asphyxiation: signs/symptoms can include light-headedness, rapid heart beat, a feeling of suffocation and blue color. Unconsciousness and death may occur if oxygen deprivation is severe or prolonged. Simple asphyxiation results from the displacement of oxygen in air to a concentration which is less than that necessary to

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8. HEALTH HAZARD DATA (continued)  
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maintain life.

IF SWALLOWED:

Damage to Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, nausea, abdominal tenderness, burns of mouth, difficulty swallowing, blood in vomitus, blood in feces, and ulceration.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

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.

Heart Effects: signs/symptoms can include arrhythmia, heart attack and death.

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

CANCER:

WARNING: Contains a chemical which can cause cancer. (75-09-2) (NTP anticipated human carcinogen, IARC possible human carcinogen 2B, ACGIH suspected human carcinogen A2, Calif. Proposition 65)

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

WARNING: Contains a chemical which can cause birth defects. (108-88-3)

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SECTION CHANGE DATES  
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HEALTH HAZARD DATA SECTION CHANGED SINCE August 22, 1996 ISSUE

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