

MATERIAL SAFETY 3M  
 DATA SHEET 3M Center  
 St. Paul, Minnesota  
 55144-1000  
 1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: TRAFFIC CONTROL MATERIALS DIVISION  
 TRADE NAME:

3M(TM) SCOTCHLITE(TM) PROCESS COLOR 705 BLACK  
 ID NUMBER/U.P.C. :  
 42-0016-6351-9 - - - 42-0017-4717-1 - - -  
 75-0300-7604-8 00-51135-67280-8 75-0300-7620-4 00-51135-67296-9  
 ISSUED: December 11, 2001  
 SUPERSEDES: March 28, 2001  
 DOCUMENT: 09-1365-7

1. INGREDIENT	C.A.S. NO.	PERCENT
ALKYD RESIN 2392.....	TradeSecret	15.0 - 40.0
ALKYD RESIN 3133.....	TradeSecret	15.0 - 40.0
NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY.....	64742-82-1	10.0 - 30.0
STODDARD SOLVENT.....	8052-41-3	7.0 - 13.0
ACRYLIC RESIN SOLUTION (16022).....	Unknown	5.0 - 10.0
CARBON BLACK.....	1333-86-4	3.0 - 7.0
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM).....	64742-94-5	1.0 - 5.0
XYLENE.....	1330-20-7	1.0 - 5.0
2-ETHYLHEXANOL.....	104-76-7	1.0 - 5.0
ISOBUTYL METHACRYLATE.....	97-86-9	0.397
ETHYLBENZENE.....	100-41-4	0.188
BUTYL ALCOHOL.....	71-36-3	0.052
TOLUENE.....	108-88-3	0.010

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:

- XYLENE
- ETHYLBENZENE
- BUTYL ALCOHOL
- TOLUENE

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

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2. PHYSICAL DATA  
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BOILING POINT:..... 105 - 295 F  
VAPOR PRESSURE:..... < 7 mmHg  
VAPOR DENSITY:..... > 1.0 Air=1  
EVAPORATION RATE:..... < 1.0 BuOAc=1  
SOLUBILITY IN WATER:..... neglig.  
SPECIFIC GRAVITY:..... ca. 1.0 Water=1  
PERCENT VOLATILE:..... 25 - 45 % by wt  
pH:..... N/A  
VISCOSITY:..... 3000 - 4000 centipoise  
MELTING POINT:..... N/D

APPEARANCE AND ODOR:  
Liquid, black, solvent odor

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3. FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT:..... 103.00 F Setaflash  
FLAMMABLE LIMITS - LEL:..... N/D  
FLAMMABLE LIMITS - UEL:..... N/D  
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:  
Water spray, 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. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
Vapors may travel long distances along the ground or floor to an ignition source and flash back.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 2 REACTIVITY: 0  
UNUSUAL REACTION HAZARD: none

OSHA FIRE HAZARD CLASS: Class II Combustible Liquid

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4. REACTIVITY DATA  
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STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:  
Strong Oxidizing Agents.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:  
Carbon Monoxide and Carbon Dioxide.

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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. Ventilate area. Extinguish all ignition sources. Contain spill. Evacuate unprotected personnel from hazard area. Cover with inorganic absorbent material. Collect using non-sparking tools. Clean up residue. Place in a U.S. DOT-approved container. Seal the container.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator. Reclaim if feasible.

ENVIRONMENTAL DATA:

Not applicable.

REGULATORY INFORMATION:

Volatile Organic Compounds: 357 gms/liter As packaged.  
VOC Less H2O & Exempt Solvents: N/A.

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: No 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:

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:

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. 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: nitrile rubber.

RECOMMENDED VENTILATION:

Use with appropriate local exhaust ventilation. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

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, full-face organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

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

RECOMMENDED STORAGE:

Store in a cool place. Store away from heat. Keep container dry. Keep container in well-ventilated area.

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 7. PRECAUTIONARY INFORMATION (continued)  
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FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition. Prevent all sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Combustible liquid and vapor. No smoking while handling this material. Vapors may ignite explosively.

HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0  
 PERSONAL PROTECTION: G

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
ALKYD RESIN 2392.....	NONE	NONE	NONE	NONE	
ALKYD RESIN 3133.....	NONE	NONE	NONE	NONE	
NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY.....	NONE	NONE	NONE	NONE	
STODDARD SOLVENT.....	100	PPM	TWA	ACGIH	
STODDARD SOLVENT.....	100	PPM	TWA	OSHAV	
STODDARD SOLVENT.....	500	PPM	TWA	OSHA	
ACRYLIC RESIN SOLUTION (16022).....	NONE	NONE	NONE	NONE	
CARBON BLACK.....	3.5	MG/M3	TWA	ACGIH	
CARBON BLACK.....	3.5	MG/M3	TWA	OSHA	
CARBON BLACK.....	0.5	MG/M3	TWA	CMRG	
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM).....	17	PPM	TWA	CMRG	
XYLENE.....	100	PPM	TWA	ACGIH	
XYLENE.....	150	PPM	STEL	ACGIH	
XYLENE.....	100	PPM	TWA	OSHA	
XYLENE.....	150	PPM	STEL	OSHA	
2-ETHYLHEXANOL.....	NONE	NONE	NONE	NONE	
ISOBUTYL METHACRYLATE.....	50	PPM	TWA	CMRG	
ISOBUTYL METHACRYLATE.....	75	PPM	STEL	CMRG	
ETHYLBENZENE.....	100	PPM	TWA	ACGIH	
ETHYLBENZENE.....	125	PPM	STEL	ACGIH	
ETHYLBENZENE.....	100	PPM	TWA	OSHA	
ETHYLBENZENE.....	125	PPM	STEL	OSHA	
BUTYL ALCOHOL.....	50	PPM	CEIL	OSHAV	Y
			OSHA VACATED PEL		
BUTYL ALCOHOL.....	50	PPM	CEIL	ACGIH	Y
BUTYL ALCOHOL.....	100	PPM	TWA	OSHA	
TOLUENE.....	50	PPM	TWA	ACGIH	Y
TOLUENE.....	100	PPM	TWA	OSHAV	
			OSHA VACATED PEL		
TOLUENE.....	150	PPM	STEL	OSHAV	
			OSHA VACATED PEL		
TOLUENE.....	200	PPM	TWA	OSHA	
TOLUENE.....	300	PPM	CEIL	OSHA	

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EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
TOLUENE.....	75	PPM	STEL	CMRG	Y

\* 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
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- OSHAV: Occupational Safety and Health Administration Vacated PEL.  
Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

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

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

INHALATION:

Illness may occur after a single overexposure by inhalation to relatively large quantities of this material.

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.

IF SWALLOWED:

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

Illness may occur after a single swallowing of relatively large quantities of this material.

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8. HEALTH HAZARD DATA (continued)  
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Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

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.

CANCER:

WARNING: Contains a chemical which can cause cancer. (100-41-4) (IARC possible human carcinogen 2B)

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

2-ETHYLHEXANOL(104-76-7) is a potential reproductive hazard causing birth defects by the oral route in laboratory animals. Skin exposure may cause male reproductive system effects, included decreased fertility.

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SECTION CHANGE DATES  
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INGREDIENTS	SECTION CHANGED SINCE March 28, 2001	ISSUE
PRECAUTIONARY INFO.	SECTION CHANGED SINCE March 28, 2001	ISSUE
HEALTH HAZARD DATA	SECTION CHANGED SINCE March 28, 2001	ISSUE

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