MATERIAL SAFETY DATA SHEET

3M
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DIVISION: AUTOMOTIVE AFTERMARKET
TRADE NAME:
3M(TM) Brushable Seam Sealer, P.N. 08656
ID NUMBER/U.P.C.:
62-5507-6509-3 00-51135-08656-8 CS-0406-7008-8 - - -
CS-0406-7030-2 - - -
ISSUED: November 28, 2001
SUPERSEDES: February 01, 2001
DOCUMENT: 10-3353-9

1. INGREDIENT	C.A.S. NO.	PERCENT
TOLUENE	108-88-3	15.0 - 40.0
METHYL ISOBUTYL KETONE	108-10-1	10.0 - 30.0
ACRYLONITRILE-1,3-BUTADIENE-DIVINYLBENZENE COPOLYMER	9052-77-1	10.0 - 30.0
TALC	14807-96-6	7.0 - 13.0
PHENOLIC POLYMER - NJ Trade Secret Registry No. 04499600-6305	TradeSecret	5.0 - 10.0
PHENOL-FORMALDEHYDE POLYMER	55185-45-0	3.0 - 7.0
SALICYLIC ACID	69-72-7	1.0 - 5.0
ETHYLENE GLYCOL	107-21-1	1.0 - 5.0
ZINC OXIDE	1314-13-2	1.0 - 5.0
TITANIUM DIOXIDE	13463-67-7	1.0 - 5.0
XYLENE	1330-20-7	0.1 - 1.0
FORMALDEHYDE	50-00-0	< 0.05

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

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:
TOLUENE
METHYL ISOBUTYL KETONE
ETHYLENE GLYCOL
ZINC OXIDE

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

1. INGREDIENT	C.A.S. NO.	PERCENT
XYLENE		
FORMALDEHYDE		

2. PHYSICAL DATA

BOILING POINT:..... 232.00 F
(toluene)
VAPOR PRESSURE:..... 25.0000 mmHg
VAPOR DENSITY:..... 3.30 Air=1
EVAPORATION RATE:..... 5.00 Ether=1
SOLUBILITY IN WATER:..... nil
SPECIFIC GRAVITY:..... 0.990 Water=1
PERCENT VOLATILE:..... 55 % by wt
pH:..... N/A
VISCOSITY:..... Paste
MELTING POINT:..... N/D

APPEARANCE AND ODOR:
Paste, gray, characteristic toluene odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 40 F
FLAMMABLE LIMITS - LEL:..... 1.27 % by vol
FLAMMABLE LIMITS - UEL:..... 7.00 % by vol
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: 3 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

OSHA FIRE HAZARD CLASS: Class IB Flammable Liquid

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Not applicable.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide, Toxic Vapors, Gases or Particulates.

5. ENVIRONMENTAL INFORMATION

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 absorbent material. Cover spill area with Light Water Brand or other AFFF foam. (For further information on AFFF foam usage, contact 3M Fire Protection Systems.) Collect using non-sparking tools. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in an approved metal container. Seal the container.

RECOMMENDED DISPOSAL:
Incinerate in a permitted hazardous waste incinerator. Disposal alternative: Dispose of completely absorbed waste product in a hazardous waste facility.

ENVIRONMENTAL DATA:
Not determined.

REGULATORY INFORMATION:
Volatile Organic Compounds: 4.51 lb/gal.
Volatile Organic Compounds: 541 gms/liter calculated per SCAQMD rule 443.1.
VOC Less H2O & Exempt Solvents: 541 gms/liter calculated per SCAQMD rule 443.1.

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) D018 (Benzene)

EPCRA HAZARD CLASS:

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

5. ENVIRONMENTAL INFORMATION (continued)

FIRE HAZARD: Yes PRESSURE: No 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:
Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

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. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:
Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: polyethylene/ethylene vinyl alcohol, polyvinyl alcohol.

RECOMMENDED VENTILATION:
Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:
Avoid prolonged breathing of vapors. 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.

7. PRECAUTIONARY INFORMATION (continued)

PREVENTION OF ACCIDENTAL INGESTION:
Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating. Do not ingest.

RECOMMENDED STORAGE:
Store in a cool place. Keep container closed when not in use. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:
Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition. No smoking while handling this material.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
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	
TOLUENE	75	PPM	STEL	CMRG	Y
METHYL ISOBUTYL KETONE	50	PPM	TWA	ACGIH	
METHYL ISOBUTYL KETONE	75	PPM	STEL	ACGIH	
METHYL ISOBUTYL KETONE	50	PPM	TWA	OSHAV	
	OSHA VACATED PEL				
METHYL ISOBUTYL KETONE	75	PPM	STEL	OSHAV	
	OSHA VACATED PEL				
METHYL ISOBUTYL KETONE	100	PPM	TWA	OSHA	
ACRYLONITRILE-1,3-BUTADIENE-DIVINYLBENZENE COPOLYMER	NONE	NONE	NONE	NONE	
TALC	2	MG/M3	TWA	OSHA	
	RESPIRABLE				
TALC	2	MG/M3	TWA	ACGIH	
	RESPIRABLE				
TALC	0.5	MG/M3	TWA	CMRG	
	AS RESPIRABLE DUST				
PHENOLIC POLYMER - NJ Trade Secret Registry No. 04499600-6305	NONE	NONE	NONE	NONE	
PHENOL-FORMALDEHYDE POLYMER	NONE	NONE	NONE	NONE	
SALICYLIC ACID	NONE	NONE	NONE	NONE	
ETHYLENE GLYCOL	50	PPM	CEIL	OSHA	
ETHYLENE GLYCOL	100	MG/M3	CEIL	ACGIH	
	AS AEROSOL				
ZINC OXIDE	10	MG/M3	TWA	ACGIH	

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
	AS DUST				
ZINC OXIDE.....	10	MG/M3	TWA	OSHAV	
	AS DUST				
	OSHA VACATED PEL				
ZINC OXIDE.....	5	MG/M3	TWA	ACGIH	
	as fume				
ZINC OXIDE.....	10	MG/M3	STEL	ACGIH	
	as fume				
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
	as fume				
ZINC OXIDE.....	10	MG/M3	STEL	OSHAV	
	as fume				
	OSHA VACATED PEL				
ZINC OXIDE.....	15	MG/M3	TWA	OSHA	
	AS TOTAL DUST				
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
	RESPIRABLE				
TITANIUM DIOXIDE.....	10	MG/M3	TWA	ACGIH	
TITANIUM DIOXIDE.....	10	MG/M3	TWA	OSHAV	
	AS DUST				
	OSHA VACATED PEL				
TITANIUM DIOXIDE.....	15	MG/M3	TWA	OSHA	
	AS TOTAL DUST				
TITANIUM DIOXIDE.....	5	MG/M3	TWA	CMRG	
	AS RESPIRABLE DUST				
XYLENE.....	100	PPM	TWA	ACGIH	
XYLENE.....	150	PPM	STEL	ACGIH	
XYLENE.....	100	PPM	TWA	OSHA	
XYLENE.....	150	PPM	STEL	OSHA	
FORMALDEHYDE.....	0.3	PPM	CEIL	ACGIH	
	SENSITIZER				
FORMALDEHYDE.....	0.75	PPM	TWA	OSHA	
	OSHA STANDARD 1910.1048				
FORMALDEHYDE.....	0.5	PPM	TWA	OSHA	
	OSHA ACTION LEVEL				

* 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.

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
- 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:
Moderate Skin Irritation: signs/symptoms can include redness, swelling, itching, and dryness.

Prolonged or repeated exposure may cause:

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

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

INHALATION:
May be harmful if inhaled.

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.

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

Allergic Respiratory Reaction: signs/symptoms can include difficulty breathing, wheezing, tightness of chest, and respiratory failure.

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.

8. HEALTH HAZARD DATA (continued)

Central Neuropathy: signs/symptoms can include dizziness, incoordination, visual changes, emotional changes, tremors and convulsions.

IF SWALLOWED:
Ingestion may cause:

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. (50-00-0) (NTP anticipated human carcinogen, IARC probable human carcinogen 2A, OSHA listed carcinogen, Calif. Proposition 65)

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

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE February 01, 2001 ISSUE

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