

MATERIAL SAFETY
 DATA SHEET



DIVISION: AUTOMOTIVE TRADES DIVISION
 TRADE NAME:
 3M FLEXICLEAR Body Seam Sealer Part Numbers 8401 and 8405
 3M I.D. NUMBER: 62-5508-2609-3 62-5508-5209-9

ISSUED: JULY 17, 1990
 SUPERSEDES: APRIL 12, 1990
 DOCUMENT: 10-5391-7

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
toluene	108-88-3	30.0 - 40.0	100	ppm	TWA	ACGIH
hydrocarbon resin	69430-35-9	10.0 - 20.0	NONE	NONE	NONE	NONE
alpha-methylstyrene polymer	25014-31-7	10.0 - 20.0	NONE	NONE	NONE	NONE
mineral oil	8012-95-1	10.0 - 20.0	NONE	NONE	NONE	NONE
thermoplastic rubber	66070-58-4	10.0 - 20.0	NONE	NONE	NONE	NONE
amorphous silicon dioxide	7631-86-9	1.0 - 10.0	3	mg/m3	TWA	ACGIH
xylene isomers	1330-20-7	1.0 - 10.0	100	ppm	TWA	ACGIH
ethylbenzene	100-41-4	0.1 - 1.0	100	ppm	TWA	ACGIH

SOURCE OF EXPOSURE LIMIT DATA:
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - NONE: None Established

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

- toluene
- xylene isomers
- ethylbenzene

2. PHYSICAL DATA

BOILING POINT:..... 232.00 F
 (toluene)
 VAPOR PRESSURE:..... 25.1900 mmHg
 @ 68F
 VAPOR DENSITY: 3.14 Air = 1
 EVAPORATION RATE:..... 4.50 Ether = 1
 SOLUBILITY IN WATER: Nil
 SP. GRAVITY:..... 0.980 Water = 1
 PERCENT VOLATILE: 36.00 %
 VOLATILE ORGANICS: 351.00 gm/l
 pH: N/D
 VISCOSITY: ca. 450000.0 CPS
 APPEARANCE AND ODOR: Clear, characteristic toluene odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 24.00 F T.C.C.
 FLAMMABLE LIMITS - LEL: 1.27 %
 FLAMMABLE LIMITS - UEL: 7.00 %
 AUTOIGNITION TEMPERATURE: ... N/D
 EXTINGUISHING MEDIA:
 CO2, foam, dry chemical
 SPECIAL FIRE FIGHTING PROCEDURES:
 Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.

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

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
612/733-1110
Duns No.: 00-617-3082

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Flammable. Overheated, closed containers adjacent to fire could explode due to pressure buildup.

NFPA-HAZARD-CODES: HEALTH 2 FIRE 3 REACTIVITY 0

UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

N/A

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

CO, CO2 and smoke particles when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Extinguish all ignition sources. Ventilate the area. Observe precautions from other sections. Collect spilled material. Place in a U.S. Department of Transportation - approved metal container, and seal.

RECOMMENDED DISPOSAL:

Incinerate bulk product after mixing with flammable material in a licensed hazardous waste facility. Disposal should be in accordance with applicable regulations. U.S. EPA Hazardous Waste Number: D001 (Ignitable).

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC):

Maximum VOC = 351 grams/liter.

Maximum VOC minus Water minus Exempt Solvents = 351 grams/liter.

VOC's were calculated according to Rule 443.1 of the South Coast

Air Quality Management District (SCAQMD).

SARA HAZARD CLASS:

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

6. SUGGESTED FIRST AID

EYE CONTACT:

Flush eyes with plenty of water for at least 10 minutes. Call a physician.

SKIN CONTACT:

Wash with soap and water.

INHALATION:

Remove individual to fresh air. Call a physician.

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6. SUGGESTED FIRST AID (continued)

IF SWALLOWED:

Do not induce vomiting. Give two glasses of milk or water to drink.
 Call a physician.

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. Keep away from heat, sparks, flames, and other sources of ignition. The vapors released from the product can be ignited easily. Avoid prolonged breathing of vapors. Use only in areas with sufficient ventilation to maintain vapor concentrations below recommended exposure limits. Provide local exhaust ventilation if necessary. Keep container closed when not in use. Avoid eye and skin contact. Use eye (e.g., safety glasses, chemical goggles) and skin (impervious gloves) protection to prevent contact. Keep out of the reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE LIMITS		LIMITS	
	VALUE	UNIT	TYPE	AUTH
toluene	377	mg/m3	TWA	ACGIH
toluene	150	ppm	STEL	ACGIH
toluene	565	mg/m3	STEL	ACGIH
toluene	100	ppm	TWA	OSHA
toluene	375	mg/m3	TWA	OSHA
toluene	150	ppm	STEL	OSHA
toluene	560	mg/m3	STEL	OSHA
amorphous silicon dioxide	6	mg/m3	TWA	ACGIH
xylene isomers	434	mg/m3	TWA	ACGIH
xylene isomers	150	ppm	STEL	ACGIH
xylene isomers	651	mg/m3	STEL	ACGIH
xylene isomers	100	ppm	TWA	OSHA
xylene isomers	435	mg/m3	TWA	OSHA
xylene isomers	150	ppm	STEL	OSHA
xylene isomers	655	mg/m3	STEL	OSHA
ethylbenzene	434	mg/m3	TWA	ACGIH
ethylbenzene	125	ppm	STEL	ACGIH
ethylbenzene	543	mg/m3	STEL	ACGIH
ethylbenzene	100	ppm	TWA	OSHA
ethylbenzene	435	mg/m3	TWA	OSHA
ethylbenzene	125	ppm	STEL	OSHA
ethylbenzene	545	mg/m3	STEL	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

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8. HEALTH HAZARD DATA

EYE CONTACT: Product irritating to eyes upon direct contact.

SKIN CONTACT: Prolonged or repeated skin contact may defat skin leading to irritation and dermatitis.

INHALATION: Vapor overexposure may cause respiratory system irritation and light-headedness. Repeated or extreme overexposure to toluene vapors may cause nervous system damage. Based on animal studies, chronic overexposure to xylene may cause blood changes and heart, liver, and kidney damage. Symptoms of overexposure may include headache, dizziness, weakness, fatigue, nausea, and on extreme overexposure -- unconsciousness.

INGESTION: May cause digestive system irritation, kidney damage, and light-headedness. Symptoms of ingestion may include nausea, vomiting, abdominal pain, incoordination, back pain, convulsions, protein and oxalate crystals in the urine, and in extreme overexposure -- unconsciousness. Solvent aspiration into the lungs may cause lung damage or death.

SECTION CHANGE DATES

FIRE & EXP. DATA SECTION CHANGED SINCE APRIL 12, 1990 ISSUE

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The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.