

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

MATERIAL SAFETY
DATA SHEET



DIVISION: AUTOMOTIVE TRADES
TRADE NAME:
3M Structural Adhesive (Part A) PART NO. 08101
3M I.D. NUMBER: 62-3535-0509-2

ISSUED: APRIL 12, 1990
SUPERSEDES: DECEMBER 27, 1989
DOCUMENT: 10-3180-6

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE LIMITS		LIMITS	
			VALUE	UNIT	TYPE	AUTH
urethane prepolymer - Trade Secret (T.S.)	T.S.	25.0 - 35.0	NONE	NONE	NONE	NONE
talc	14807-96-6	20.0 - 30.0	2	mg/m ³	TWA	ACGIH
diphenylmethane diisocyanate (MDI)	26447-40-5	15.0 - 25.0	0.005	ppm	TWA	ACGIH
higher oligomers of MDI	9016-87-9	15.0 - 25.0	0.005	ppm	TWA	3M
zeolites	68989-22-0	1.0 - 10.0	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- 3M: 3M Medical Department Guideline
- NONE: None Established

NOTE: To be used with 3M Structural Adhesive (Part B) PART NO. 08101;
sold in kit, (Mfg. #EC-3535 -- MSDS DOC #1031814).

2. PHYSICAL DATA

BOILING POINT:..... 406.00 F
@ 5mm Hg
VAPOR PRESSURE:..... 0.0010 mmHg
@ 25C
VAPOR DENSITY: N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER: 0.1-1.0 %
SP. GRAVITY:..... 1.340 Water = 1
PERCENT VOLATILE: 0.00 %
VOLATILE ORGANICS: N/A
pH: N/A
VISCOSITY: 15000.0-40000.0 CPS
APPEARANCE AND ODOR: Brown, paste, slight odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
FLAMMABLE LIMITS - LEL: N/A
FLAMMABLE LIMITS - UEL: N/A
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
CO₂, foam, dry chemical, water spray
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should wear self-contained breathing apparatus when fighting fires involving this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.
NFPA-HAZARD-CODES: HEALTH 2 FIRE 0 REACTIVITY 1
UNUSUAL REACTION HAZARD: NONE

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

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4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

Reacts with water (liquid and atmospheric), alcohols, amines -- not a hazard; reacts with acids, alkalis and similar compounds. **CONDITIONS TO AVOID:** Avoid temperatures above 120F or below 32F.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition may produce CO, CO₂, nitrogen oxides and possible traces of hydrogen cyanide. Thermal decomposition of polyurethane or polyisocyanurate foams at temperatures below their ignition points may generate isocyanate vapors and other irritating volatile products.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Ventilate area. Observe precautions from other sections. Only properly protected personnel should remain in the immediate area. Post the area to prevent admittance by unprotected personnel. Contain spill by covering with loose, absorbent material (sawdust or oil dry). Place in a suitable open top metal container (U.S. Department of Transportation-approved if waste is to be shipped). Remove waste and container to well ventilated area and treat by spraying with an ammonia solution (90% water, 8% concentrated NH₄OH and 2% liquid detergent). Leave ventilated 24 hours, then seal container. Wash down area with dilute ammonia solution to neutralize remaining residue of isocyanate.

RECOMMENDED DISPOSAL:

FOR ACCELERATOR ONLY and/or TWO COMPONENT MATERIAL (WHEN COMPONENTS HAVE BEEN MIXED TOGETHER): Fully-cured or neutralized waste may be disposed in a sanitary landfill. Incinerate unused or partially cured bulk material after mixing with flammable material in an industrial or commercial facility. Disposal should be in accordance with applicable regulations.

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC):
Maximum VOC = N/A.
Maximum VOC minus Water minus Exempt Solvents = N/A.

SARA HAZARD CLASS:

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

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:

Thoroughly wash affected area with soap and water.

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6. SUGGESTED FIRST AID (continued)

INHALATION:

Remove person to uncontaminated air. Call a physician.

IF SWALLOWED:

Do not induce vomiting. Call a physician or poison control center.

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

This material is part of a two component system. The precautions for each component should be observed when separate or mixed. Do not breathe vapors. Use only in areas with sufficient ventilation to maintain airborne concentrations below recommended exposure limits, local exhaust may be necessary. If local exhaust is unavailable or ventilation is insufficient to maintain airborne concentrations below recommended exposure limits use an approved respirator e.g. a N.I.O.S.H. air-supplied or self-contained breathing apparatus. Post the work area to prevent entry by unprotected individuals. Prevent contact with eyes and skin by using suitable personal protective equipment, i.e. chemical goggles, rubber or plastic gloves and protective clothing when handling this material. Remove contaminated clothing and launder before reuse. Wash thoroughly after handling material. Keep container tightly closed when not in use. Keep out of the reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE LIMITS		LIMITS	
	VALUE	UNIT	TYPE	AUTH
talc	2	mg/m ³	TWA	OSHA
diphenylmethane diisocyanate (MDI)	0.005	ppm	TWA	3M
diphenylmethane diisocyanate (MDI)	0.02	ppm	STEL	3M
diphenylmethane diisocyanate (MDI)	0.055	mg/m ³	TWA	ACGIH
diphenylmethane diisocyanate (MDI)	0.02	ppm	CEIL	OSHA
diphenylmethane diisocyanate (MDI)	0.2	mg/m ³	CEIL	OSHA
higher oligomers of MDI	0.02	ppm	STEL	3M

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- 3M: 3M Medical Department Guideline

8. HEALTH HAZARD DATA

EYE CONTACT: May cause eye irritation upon direct contact.

SKIN CONTACT: May be irritating to skin upon prolonged contact. May cause allergic skin reaction in some individuals.

INHALATION: Vapor overexposure may cause respiratory system

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8. HEALTH HAZARD DATA (continued)

irritation. Diphenylmethane diisocyanate (MDI) may cause an asthma-like respiratory reaction in certain individuals. Once sensitized, an individual may experience an allergic response of asthma-like symptoms when exposed to levels below the recommended exposure limits. Symptoms of exposure may include tightness of chest, difficult breathing, lung congestion and edema, nausea, vomiting, headache, dizziness, fatigue, and on extreme overexposure, unconsciousness.

INGESTION: May cause digestive system irritation.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	DECEMBER 27, 1989 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.