

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

01-25
 1126

MATERIAL SAFETY
 DATA SHEET



DIVISION: AUTOMOTIVE TRADES DIVISION
 TRADE NAME:
 3M 2K Lightweight Putty - Part A P/N 5970 *5960*
 3M I.D. NUMBER: 60-9800-1323-3

ISSUED: FEBRUARY 7, 1990
 SUPERSEDES: JULY 20, 1989
 DOCUMENT: 11-0403-3

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE VALUE UNIT	LIMITS TYPE AUTH
Talc	14807-96-6	25.0 - 45.0	2 mg/m3	TWA ACGI
Polyester Resins	N/D	30.0 - 40.0	NONE NONE	NONE NONE
Styrene Monomer	100-42-5	15.0 - 25.0	50 ppm	TWA ACGI
Glass Bubbles	N/A	1.0 - 10.0	NONE NONE	NONE NONE
Amorphous Silica	7631-86-9	1.0 - 5.0	3 mg/m3	TWA ACGI

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

NOTE: Part A is used with Part B

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:
 Styrene Monomer

2. PHYSICAL DATA

BOILING POINT:..... 293.00 F
 (Styrene)
 VAPOR PRESSURE:..... 4.3000 mmHg
 at 20 C (Styrene)
 VAPOR DENSITY: 3.60 Air = 1
 (Styrene)
 EVAPORATION RATE:..... N/D
 SOLUBILITY IN WATER: nil
 SP. GRAVITY:..... 1.260-1.380 Water = 1
 PERCENT VOLATILE: 21.00 %
 VOLATILE ORGANICS: N/D
 pH: N/D
 VISCOSITY: 600000.0-800000.0 CPS
 APPEARANCE AND ODOR: Beige, Paste, Styrenic Odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... < 100.00 F
 FLAMMABLE LIMITS - LEL: N/D
 FLAMMABLE LIMITS - UEL: N/D
 AUTOIGNITION TEMPERATURE: ... N/D
 EXTINGUISHING MEDIA:
 Carbon dioxide, foam, dry chemical
 SPECIAL FIRE FIGHTING PROCEDURES:
 Full protective equipment, including self-contained breathing apparatus, is recommended.
 UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Styrene vapors.

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

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

NFPA-HAZARD-CODES: HEALTH 2 FIRE 3 REACTIVITY 2
UNUSUAL REACTION HAZARD: NONE

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Peroxides, strong alkalis, strong mineral acids.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
Toxic materials, various hydrocarbons, carbon monoxide, carbon dioxide.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Ventilate area and extinguish all ignition sources. Observe precautions from other sections. Collect spilled material and place in a U.S. DOT approved metal container and seal.

RECOMMENDED DISPOSAL:

For small quantities, mix with Part B, cure, and dispose in a sanitary landfill. Incinerate waste/bulk product in a hazardous waste facility. Consult applicable regulations or authorities before disposal. U.S. EPA Hazard Waste Number: D001 (Ignitable).

ENVIRONMENTAL DATA:

N/D

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. Call a physician.

SKIN CONTACT:

Wash with soap and water.

INHALATION:

Provide fresh air. Call a physician.

IF SWALLOWED:

Do not induce vomiting. Call a physician.

OTHER FIRST AID:

NONE

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7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks and open flame. Use only in areas with sufficient ventilation to maintain vapor concentrations below recommended exposure limits. Avoid eye contact. Avoid excessive inhalation of vapor. Avoid prolonged skin contact. Keep cap on tube when not in use. KEEP OUT OF THE REACH OF CHILDREN.

Material may become unstable at elevated temperatures.

This kit consists of two components. The precautions for each part should be observed when separate or mixed.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE LIMITS		LIMITS	
	VALUE	UNIT	TYPE	AUTH
Talc	2	mg/m3	TWA	ACGIH
Styrene Monomer	215	mg/m3	TWA	ACGIH
Styrene Monomer	100	ppm	STEL	ACGIH
Styrene Monomer	425	mg/m3	STEL	ACGIH
Styrene Monomer	200	ppm	CEIL	OSHA
Styrene Monomer	100	ppm	TWA	OSHA
Styrene Monomer	600	ppm	STEL	OSHA
Amorphous Silica	6	mg/m3	TWA	ACGIH

SOURCE OF EXPOSURE LIMIT DATA:

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

8. HEALTH HAZARD DATA

EYE CONTACT: May be irritating to eyes upon direct contact. Vapor may cause eye irritation.

SKIN CONTACT: Prolonged skin contact may defat skin leading to irritation and dermatitis. Styrene may be absorbed through the skin.

INHALATION: Vapor overexposure may cause respiratory system irritation and temporary nervous system impairment. Symptoms of overexposure may include dizziness, weakness, fatigue, nausea, vomiting, and possible unconsciousness. Dust generated during the processing of cured material may cause respiratory system irritation.

INGESTION: Can cause digestive system irritation, nausea, vomiting, diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Note: Repeated or extreme overexposure to styrene by skin contact, inhalation or ingestion may cause liver, lung and kidney effects.

Note: Styrene has been shown to cause cancer in animal feeding studies at exceedingly high doses. The relevance of this data to human health concerns has yet to be determined.

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SECTION CHANGE DATES

INGREDIENTS **SECTION CHANGED SINCE JULY 20, 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.